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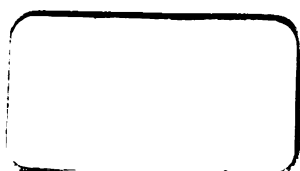
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1894.

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INSURANCE COMPANY OF SPRINGFIELD, MASS.

Annual Statement January 1st, 1894.

CAPITAL 1,500,000 DOLLARS.

ASSETS.....\$3,505,495.17

LIABILITIES.

Capital Stock.....	\$1,500,000.00
Reserve for Reinsurance.....	1,343,413.79
Reserve for all unsettled Claims.....	299,660.29
NET SURPLUS.....	\$362,421.09

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 SANFORD J. HALL, Secretary. H. M. GATES, Treasurer. A. W. DAMON, Ass't Secretary.

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OF NEW YORK.

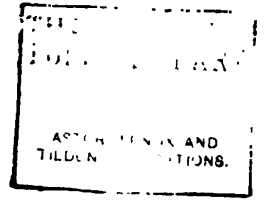
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1894.

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Reserve for Reinsurance	1,098,152.93
Reserve for Losses and Other Claims	148,498.45
Net Surplus	960,332.83
TOTAL ASSETS	\$3,206,984.21

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ATLAS

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OF

BOSTON, MASS.

OFFICE: MASON BUILDING, BOSTON.

Assets to policyholders, June 1st, 1894, exceed \$1,500,000.

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TABLE OF CONTENTS.

	PAGE
Addenda.....	18
Adjusters, List of Independent.....	426
Africa, Fire Insurance in.....	81
Agents American Companies, General and Special.....	118-127
Agents Foreign Companies, General and Special.....	128-131
Agents, List of Insurance.....	329
Alabama, Fire Insurance in.....	136
Alabama, Fire Protection and Water Supply—Appendix.....	3
Alabama, Statistics of Fire and Marine Companies in.....	236
Alabama, Statutory Requirements.....	33
Alaska, Fire Insurance in.....	137
Alaska, Fire Protection and Water Supply—Appendix.....	6
American Mutual Fire Insurance Companies, List and Statistics of (See Mutual Fire Insurance).....	276-307
Appendix—Fire Protection and Water Supply.....	1
Argentine Republic, Fire Insurance in.....	81
Arizona, Fire Insurance in.....	136
Arizona, Fire Protection and Water Supply—Appendix.....	6
Arizona, Statutory Requirements.....	34
Arkansas, Fire Insurance in.....	137
Arkansas, Fire Protection and Water Supply—Appendix.....	7
Arkansas, Statistics of Fire and Marine Companies in.....	237
Arkansas, Statutory Requirements.....	35
Asia, Fire Insurance in.....	81-82
Australasian Fire Insurance Companies.....	203-204
Austrian Fire Insurance Companies.....	77
Automatic Sprinklers, List of.....	135
Balkan States Fire Insurance Companies.....	77
Belgian Fire and Fire Reinsurance Companies.....	77
Bermuda, Fire Insurance Companies in.....	81
British Columbia, Fire Protection and Water Supply in—Appendix.....	312
California, Fire Insurance in.....	138
California, Fire Protection and Water Supply—Appendix.....	9
California, Statistics of Fire and Marine Companies in.....	237
California, Statutory Requirements.....	36
Canada, Fire Insurance in.....	138, 209-217
Canada, Fire Protection and Water Supply—Appendix.....	312
Canada, Statutory Requirements.....	37, 209
Chili, Fire Insurance in.....	81
Chinese Fire Insurance Companies.....	202-204
Cities, Statistics of Fires in American.....	198-200
Clauses, Policy.....	99-108
Colorado, Fire Insurance in.....	139
Colorado, Fire Protection and Water Supply—Appendix.....	20
Colorado, Statutory Requirements.....	37
Connecticut, Fire Insurance in.....	141
Connecticut, Fire Protection and Water Supply—Appendix.....	25
Connecticut, Mutual Companies.....	276
Connecticut, Statistics of Fire and Marine Companies in.....	237
Connecticut, Statutory Requirements.....	38
Corea, Fire Insurance Companies in.....	81
Cuba, Fire Insurance Companies in.....	81
Delaware, Fire Insurance in.....	142
Delaware, Fire Protection and Water Supply—Appendix.....	32

	PAGE
Delaware, Mutual Companies.....	277
Delaware, Statutory Requirements.....	39
Directors of Fire Insurance Companies (See Addenda).....	109-117
District of Columbia, Fire Insurance in.....	142, 181
District of Columbia, Fire Protection and Water Supply—Appendix.....	33
District of Columbia, Mutual Companies.....	278
District of Columbia, Statutory Requirements.....	40
District of Columbia, Statistics of Fire and Marine Companies in.....	239
Dividends of American Fire Insurance Companies for 25 years.....	186-193
Dominion of Canada, Fire Protection and Water Supply—Appendix.....	312
Dutch Fire Insurance Companies.....	78
Earned Premium, Scale for Computing.....	135
Ecuador, Fire Insurance Companies in.....	81
Egypt, Fire Insurance Companies in.....	81
Europe, Fire Insurance in.....	76-80, 82
Failed and Retired Companies.....	87-99
Fees, State Taxes and.....	132
Field Men of Foreign Companies.....	128-131
Field Men of U. S. Companies (See Addenda).....	118-127
Fire Insurance Companies, Balkan States.....	77
Fire and Fire Reinsurance Companies of Belgium.....	77
Fire and Fire Reinsurance Companies, Italian.....	79
Fire, Marine and Miscellaneous Insurance Companies, Australasian.....	203-204
Fire and Fire Reinsurance Companies, Swiss.....	78
Fire and Marine Insurance Companies, Directors of.....	109-117
Fire and Marine Companies, Statistics of—	
Alabama.....	236
Arkansas.....	237
California.....	237
Connecticut.....	237
District of Columbia.....	239
Florida.....	241
Georgia.....	241
Illinois.....	241
Indiana.....	242
Iowa.....	243
Kansas.....	245
Kentucky.....	245
Louisiana.....	246
Maine.....	248
Maryland.....	249
Massachusetts.....	250
Michigan.....	252
Minnesota.....	252
Mississippi.....	253
Missouri.....	253
Nebraska.....	253
New Hampshire.....	254
New Jersey.....	255
New York.....	256
North Carolina.....	251
Ohio.....	252
Oregon.....	254
Pennsylvania.....	255
Rhode Island.....	270
South Carolina.....	271
South Dakota.....	271
Tennessee.....	271
Texas.....	273
Utah.....	273
Vermont.....	273
Virginia.....	273

	PAGE
Fire and Marine Insurance Companies, Statistics of— <i>Con.</i>	
West Virginia.....	275
Wisconsin.....	275
Fire Insurance by States—	
Alabama.....	136
Alaska.....	137
Arizona.....	136
Arkansas.....	137
California.....	138
Canada.....	138
Colorado.....	139
Connecticut.....	141
Delaware.....	142
District of Columbia.....	142-181
Florida.....	143
Georgia.....	144
Idaho.....	145
Illinois.....	144
Indiana.....	147
Indian Territory.....	147
Iowa.....	148
Kansas.....	148
Kentucky.....	150
Louisiana.....	151
Maine.....	152
Maryland.....	152
Massachusetts.....	155
Michigan.....	157
Minnesota.....	157
Mississippi.....	159
Missouri.....	159
Montana.....	160
Nebraska.....	162
Nevada.....	162
New Hampshire.....	163
New Jersey.....	164
New Mexico.....	165
New York.....	166
North Carolina.....	167
North Dakota.....	168
Ohio.....	169
Oklahoma Territory.....	170
Oregon.....	171
Pennsylvania.....	170
Rhode Island.....	173
South Carolina.....	174
South Dakota.....	175
Tennessee.....	174
Texas.....	175
Utah.....	177
Vermont.....	176
Virginia.....	177
Washington.....	179
West Virginia.....	178
Wisconsin.....	179
Wyoming.....	180
Fire Insurance by States, Recapitulation.....	182-185
Fire Insurance Companies, Australasian.....	203-204
Fire Insurance Companies, Austrian.....	77
Fire Insurance Companies, Chinese.....	202-204
Fire Insurance Companies, Dutch.....	78
Fire Insurance Companies, French.....	80
Fire Insurance Companies, German.....	78-79
Fire Insurance Companies of Great Britain, Statistics of.....	73-76
Fire Insurance Companies, Italian.....	79
Fire Insurance Companies, Russian.....	80
Fire Insurance Companies, Scandinavian.....	80
Fire Insurance Companies, Swiss.....	78
Fire Insurance in Europe.....	76-80, 82
Fire Insurance Companies in the Hands of Receivers.....	96-99
Fire Insurance Companies Licensed to do Business in Canada, List of.....	212-217
Fire Insurance Companies, Statistics of U. S. Branches of Foreign.....	308
Fire Insurance Companies Failed or Retired (See Addenda).....	87-99
Fire Insurance Field Men of U. S. Companies (See Addenda).....	118-127
Fire Insurance in Canada.....	138, 209-217

	PAGE
Fire Insurance in the United States, Total.....	315
Fire Insurance Premiums in New York City.....	83-86
Fire Patrols of the United States.....	197
Fires in American Cities, Statistics of.....	198-200
Fires in London, England.....	208
Fire Insurance Stocks and Dividends.....	186-193
Fire Insurance Transacted in Canada.....	210-217
Fire Insurance Written and in Force.....	206-208
Fire Losses in New York.....	201
Fire Protection and Water Supply—Appendix.....	
Fire Risks and Rates, Term.....	204-205
Fire Risks Written and in Force.....	206-208
Fire Underwriters Organizations (See Addenda).....	194-197
Florida, Fire Insurance in.....	143
Florida, Fire Protection and Water Supply—Appendix.....	33
Florida, Statutory Requirements.....	40
Florida, Statistics of Fire and Marine Insurance Companies in.....	241
Foreign Companies on the Pacific Coast.....	314
Foreign Companies, Field Men of (See Addenda).....	128-131
Foreign Companies, Statistics of.....	73-82, 202-204
Foreign Companies, Statistics of U. S. Branches.....	308
Foreign Companies, Trustees in the United States (See Addenda).....	117-118
Foreign Marine Companies, Statistics of U. S. Branches of.....	314
French Fire Insurance Companies.....	80
Georgia, Fire Insurance in.....	144
Georgia, Fire Protection and Water Supply—Appendix.....	35
Georgia, Mutual Companies.....	278
Georgia, Statistics of Fire and Marine Companies in.....	241
Georgia, Statutory Requirements.....	41
German Fire Insurance Companies.....	78-79
Great Britain Companies, Directory of.....	73-74
Great Britain, New Companies in.....	75
Great Britain, Statistics of Fire Insurance Companies in.....	76
Greece, Fire Insurance Companies in.....	82
Idaho, Fire Insurance in.....	145
Idaho, Fire Protection and Water Supply—Appendix.....	39
Idaho, Statutory Requirements.....	41
Illinois, Fire Insurance in.....	144
Illinois, Fire Protection and Water Supply—Appendix.....	40
Illinois, Mutual Companies.....	278
Illinois, Statistics of Fire and Marine Companies in.....	241
Illinois, Statutory Requirements.....	42
India, Fire Insurance Companies in.....	82
Indiana, Fire Insurance in.....	147
Indiana, Fire Protection and Water Supply—Appendix.....	58
Indiana, Mutual Companies.....	280
Indiana, Statistics of Fire and Marine Companies in.....	242
Indiana, Statutory Requirements.....	43
Indian Territory, Fire Protection and Water Supply—Appendix.....	68
Indian Territory, Fire Insurance in.....	147
Insurance Agents, List of.....	329
Insurance Written and in Force.....	206-208
Iowa, Fire Insurance in.....	148
Iowa, Fire Protection and Water Supply—Appendix.....	68
Iowa, Mutual Companies.....	280
Iowa, Statistics of Fire and Marine Companies in.....	243
Iowa, Statutory Requirements.....	44
Italian Fire and Fire Reinsurance Companies.....	79
Japan, Fire Insurance Companies in.....	82
Kansas, Fire Insurance in.....	148
Kansas, Fire Protection and Water Supply—Appendix.....	80
Kansas, Mutual Companies.....	281
Kansas, Statistics of Fire and Marine Insurance Companies in.....	245

	PAGE
Kansas, Statutory Requirements.....	45
Kentucky, Fire Insurance in.....	150
Kentucky, Fire Protection and Water Supply—Appendix.....	89
Kentucky, Mutual Companies.....	281
Kentucky, Statistics of Fire and Marine Companies in.....	245
Kentucky, Statutory Requirements.....	45
Legislatures of States and Territories.....	133
List of Automatic Sprinklers.....	135
List of Fire Underwriters Organizations (See Addenda).....	194-197
List of Great Britain Companies.....	73-74
Lloyds, Table of Information Concerning.....	218
Lloyds, Lists of Subscribers of.....	220-235
Lloyds Subscribers, Liability of.....	220-235
London, Eng., Fires in.....	208
Losses in New York, Fire.....	201
Louisiana, Fire Insurance in.....	151
Louisiana, Fire Protection and Water Supply—Appendix.....	94
Louisiana, Statistics of Fire and Marine Companies in.....	246
Louisiana, Statutory Requirements.....	46
Maine, Fire Insurance in.....	152
Maine, Fire Protection and Water Supply—Appendix.....	96
Maine, Mutual Companies in.....	281
Maine, Statistics of Fire and Marine Companies in.....	248
Maine, Statutory Requirements.....	47
Manitoba, Fire Protection and Water Supply in—Appendix.....	313
Marine Companies, Statistics of U. S. Branches of Foreign.....	314
Maryland, Fire Insurance in.....	152
Maryland, Fire Protection and Water Supply—Appendix.....	103
Maryland, Mutual Companies in.....	281
Maryland, Statistics of Fire and Marine Companies in.....	249
Maryland, Statutory Requirements.....	48
Massachusetts, Fire Insurance in.....	155
Massachusetts, Fire Protection and Water Supply—Appendix.....	106
Massachusetts, Mutual Companies in.....	283
Massachusetts, Statistics of Fire and Marine Companies in.....	250
Massachusetts, Statutory Requirements.....	49
Michigan, Fire Insurance in.....	157
Michigan, Fire Protection and Water Supply—Appendix.....	126
Michigan, Mutual Companies.....	290
Michigan, Statistics of Fire and Marine Companies in.....	252
Michigan, Statutory Requirements.....	50
Minnesota, Fire Insurance in.....	157
Minnesota, Fire Protection and Water Supply—Appendix.....	142
Minnesota, Mutual Companies.....	290
Minnesota, Statistics of Fire and Marine Companies in.....	252
Minnesota, Statutory Requirements.....	51
Mississippi, Fire Insurance in.....	159
Mississippi, Fire Protection and Water Supply—Appendix.....	150
Mississippi, Statistics of Fire and Marine Companies in.....	253
Mississippi, Statutory Requirements.....	52
Missouri, Fire Insurance in.....	159
Missouri, Fire Protection and Water Supply—Appendix.....	152
Missouri, Mutual Companies.....	290
Missouri, Statistics of Fire and Marine Companies in.....	253
Missouri, Statutory Requirements.....	53
Montana, Fire Insurance in.....	160
Montana, Fire Protection and Water Supply—Appendix.....	160
Montana, Statutory Requirements.....	54
Mutual Fire Insurance—Connecticut.....	276

	PAGE
Mutual Fire Insurance—Conn.	
Delaware.....	277
District of Columbia.....	278
Georgia.....	278
Illinois.....	278
Indiana.....	280
Iowa.....	280
Kansas.....	281
Kentucky.....	281
Maine.....	281
Maryland.....	281
Massachusetts.....	273
Michigan.....	270
Minnesota.....	290
Missouri.....	290
Nebraska.....	291
New Hampshire.....	291
New Jersey.....	292
New York.....	294
North Dakota.....	296
Ohio.....	296
Pennsylvania.....	298
Rhode Island.....	303
South Carolina.....	306
Tennessee.....	306
Vermont.....	306
Virginia.....	307
Wisconsin.....	307
Nebraska, Fire Insurance in.....	162
Nebraska, Fire Protection and Water Supply—Appendix.....	161
Nebraska, Mutual Companies.....	291
Nebraska, Statistics of Fire and Marine Companies in.....	253
Nebraska, Statutory Requirements.....	54
Nevada, Fire Insurance in.....	162
Nevada, Fire Protection and Water Supply—Appendix.....	169
Nevada, Statutory Requirements.....	55
New Brunswick, Fire Protection and Water Supply in—Appendix.....	314
New Hampshire, Fire Insurance in.....	163
New Hampshire, Fire Protection and Water Supply—Appendix.....	170
New Hampshire, Mutual Companies.....	291
New Hampshire, Statistics of Fire and Marine Companies in.....	254
New Hampshire, Statutory Requirements.....	55
New Jersey, Fire Insurance in.....	164
New Jersey, Fire Protection and Water Supply—Appendix.....	174
New Jersey, Mutual Companies.....	292
New Jersey, Statistics of Fire and Marine Companies in.....	255
New Jersey, Statutory Requirements.....	56
New Mexico, Fire Insurance in.....	165
New Mexico, Fire Protection and Water Supply in—Appendix.....	183
New Mexico, Statutory Requirements.....	57
New York City, Fire Insurance Premiums in.....	83-86
New York, Fire Insurance in.....	166
New York, Fire Losses in.....	201
New York, Fire Protection and Water Supply in—Appendix.....	184
New York, Mutual Companies.....	294
New York, Statistics of Fire and Marine Companies in.....	256
New York, Statutory Requirements.....	58
North Carolina, Fire Insurance in.....	167
North Carolina, Fire Protection and Water Supply in—Appendix.....	215
North Carolina, Statistics of Fire and Marine Companies in.....	261
North Carolina, Statutory Requirements.....	59
North Dakota, Fire Insurance in.....	168
North Dakota, Fire Protection and Water Supply in—Appendix.....	218
North Dakota, Mutual Companies.....	296
North Dakota, Statutory Requirements.....	59
Northwest Territories, Fire Protection and Water Supply—Appendix.....	314

	PAGE
Nova Scotia, Fire Protection and Water Supply in—Appendix.....	315
Officials Having Authority in Insurance Matters.....	134
Ohio, Fire Insurance in.....	169
Ohio, Fire Protection and Water Supply in—Appendix.....	220
Ohio, Mutual Companies.....	296
Ohio, Statistics of Fire and Marine Companies in.....	262
Ohio, Statutory Requirements.....	60
Oklahoma Territory, Fire Insurance in.....	170
Oklahoma, Fire Protection and Water Supply in—Appendix.....	239
Oklahoma Territory, Statutory Requirements.....	62
Ontario, Fire Protection and Water Supply in—Appendix.....	316
Oregon, Fire Insurance in.....	171
Oregon, Fire Protection and Water Supply in—Appendix.....	239
Oregon, Statistics of Fire and Marine Companies in.....	264
Oregon, Statutory Requirements.....	62
Organizations of Fire Underwriters (See Addenda).....	194-197
Patrols of the United States, Fire.....	157
Pennsylvania, Fire Insurance in.....	170
Pennsylvania, Fire Protection and Water Supply in—Appendix.....	242
Pennsylvania, Mutual Companies.....	298
Pennsylvania, Statistics of Fire and Marine Companies in.....	265
Pennsylvania, Statutory Requirements.....	63
Peru, Fire Insurance Companies in.....	82
Policy Clauses.....	99-108
Application and Survey Clause.....	104
As Now or May Be Hereafter Constituted.....	108
Assessment, Instalment or Credit Clause.....	105
Automatic Fire Alarm, Full Equipment.....	105
Automatic Fire Alarm.....	105
Automatic Sprinklers.....	105
Average Clause, Distribution Form.....	100
Average Clause, Coinsurance Plan.....	100
Average or Coinsurance Clause.....	100
Casks of Water.....	105
Charges for Gasoline Permits.....	103
Coal Oil and Gunpowder Permit.....	104
Coinsurance Clause for Floating Policy.....	100
Completion Clause.....	108
Condition as to Incumbrances.....	104
Cotton Form, Common Carrier.....	101
Cotton Form, Specific Policy.....	101
Cotton Form, Warehousemen.....	101
Double Line, Exception Clause.....	106
Duplicate.....	108
Dwelling Above Grade Floor.....	100
Electric Light Permit.....	104
Electric Light Privilege.....	104
Exposure Clause.....	105
Floating Policy Exemptions.....	108
Four-fifths Coinsurance Clause.....	100
Full Value Coinsurance Clause.....	99
Gasoline Dangerous to Life and Property.....	103
Gasoline Stove Permit.....	103
Graded Grain, New York Form.....	103
Insurance and Indemnity Limit.....	102
Iron Safe Clause.....	104
Kerosene Oil Stove Permit.....	104
Leased Ground Clause.....	108
Leasehold Interest, Tenant's Form.....	107
Lightning Clause.....	103
Live Stock Clause, Consequential Damages.....	106
Loss Payable Clause.....	108
Lumber Clause.....	102
Lumber, Four-fifths Clause.....	102
Lumber Yard, Space Clause.....	105
Manufacturing Privilege, N. Y. Dry Goods District.....	106
Michigan Lumber, Four-fifths Clause.....	102
Mortgage Clause.....	107
Mortgage Clause, When Owner Has No interest in the Insurance.....	107

	PAGE
Policy Clauses—Con.	
Mortgage Clause, With Full Contribution.....	106
Natural Gas Permit.....	104
New York Automatic Sprinklers Clause.....	105
New York Automatic Fire Alarm Clause.....	105
Notice of Other Insurance.....	108
Ordinary Mechanics Privilege.....	104
Percentage Coinsurance Clause.....	99
Percentage Coinsurance and Limitation Clause.....	100
Percentage Coinsurance and Limitation Clause (Specific Items).....	99
Percentage Value Clause.....	99, 102
Permit for Keeping Gasoline, Etc.....	104
Permit for Kerosene Oil Stove.....	104
Permit to Use Earth Oil for Fuel.....	104
Rate Clause.....	108
Reinsurance Clause, Storage Form.....	106
Rent Policy.....	107
Simple Vacancy Privilege.....	103
Space Clause.....	105
Special Limitation of Liability.....	108
Stand-pipe.....	105
Steam Threshing Permit.....	106
Texas Equitable Coinsurance and Contribution Clause.....	100
Three-fourths Loss Clause.....	102
Three-fourths Value Clause.....	102
Three-quarter Loss Clause.....	101
Transfer of Location.....	108
Transfer of Ownership.....	107
Two-third Vacancy Clause.....	101
Use and Occupancy Form.....	107
Vacancy Clause.....	106
Vacancy Permit.....	101
Warrantee for Theatres.....	105
Watchman.....	105
Watchman Clause, Distilleries.....	105
Wharf Clause for Storage Insurance.....	108
Wisconsin Three-fourths Loss Clause.....	102
Premiums in New York City, Fire Insurance.....	83-86
Prince Edward's Island, Fire Protection and Water Supply—Appendix.....	328
Publishers' Preface.....	17
Quebec, Fire Protection and Water Supply—Appendix.....	328
Rates and Risks, Term Fire.....	204-205
Recapitulation of Fire Insurance by States.....	182-185
Receivers of Fire Insurance Companies.....	96-99
Reciprocal Underwriters (see Lloyds.)	
Retired American Fire Insurance Companies (Addenda).....	87-99
Rhode Island, Fire Insurance in.....	173
Rhode Island, Fire Protection and Water Supply in—Appendix.....	267
Rhode Island, Mutual Companies.....	303
Rhode Island, Statistics of Fire and Marine Companies in.....	270
Rhode Island, Statutory Requirements.....	64
Risks and Rates, Term Fire.....	204-205
Risks Written and in Force.....	206-208
Russian Fire Insurance Companies.....	80
Scale, Standard Short Rate.....	135
Scandinavian Fire Insurance Companies.....	80
Short Rate Scale, Standard.....	135
Siam, Fire Insurance Companies in.....	82
South America, Fire Insurance in.....	81-82
South Carolina, Fire Insurance in.....	174
South Carolina, Fire Protection and Water Supply in—Appendix.....	269
South Carolina, Mutual Companies.....	306
South Carolina, Statistics of Fire and Marine Companies in.....	271
South Carolina, Statutory Requirements.....	64
South Dakota, Fire Insurance in.....	175
South Dakota, Fire Protection and Water Supply in—Appendix.....	271
South Dakota, Statistics of F. and M. Cos. in.....	271
South Dakota, Statutory Requirements.....	65
Special Clauses, Permits and Privileges.....	99-108
Springfield Fire and Marine Insurance Company, The.....	201

	PAGE
Sprinklers, List of Automatic	135
Standard Short Rate Scale	135
State and Territorial Legislatures	133
State Officials Having Authority in Insurance Matters	134
State Taxes and Fees	132
States, Fire Insurance by (See under Fire)	136-185
Statistics of Austrian Fire Insurance Companies	77
Statistics of Australasian Fire Insurance Companies	203-204
Statistics of Balkan States Fire Insurance Companies	77
Statistics of British Fire Insurance Companies	73-76
Statistics of Chinese Fire Insurance Companies	202-204
Statistics of Dutch Fire Insurance Companies	78
Statistics of Fires in American Cities	198-200
Statistics of Fire Insurance Companies of Belgium	77
Statistics of Fire Insurance Companies of Scandinavia	80
Statistics of Foreign Companies	73-82
Statistics of French Fire Insurance Companies	80
Statistics of German Fire Insurance Companies	78-79
Statistics of Greek Fire Insurance Companies	82
Statistics of Italian Fire Insurance Companies	79
Statistics of Russian Fire Insurance Companies	80
Statistics of Swiss Fire Insurance Companies	78
Statistics of United States Branches of Foreign Companies	308
Statistics of United States Branches of Foreign Marine Companies	314
Statistics of Fire and Marine Insurance Companies	236
Statistics of Mutual Fire Insurance Companies	276
Statutory Requirements—	
Alabama	33
Arizona	34
Arkansas	35
California	36
Canada	37-209
Colorado	37
Connecticut	38
Delaware	39
District of Columbia	40
Florida	40
Georgia	41
Idaho	41
Illinois	42
Indiana	43
Iowa	44
Kansas	45
Kentucky	45
Louisiana	46
Maine	47
Maryland	48
Massachusetts	49
Michigan	50
Minnesota	51
Mississippi	52
Missouri	53
Montana	54
Nebraska	54
Nevada	55
New Hampshire	55
New Jersey	56
New Mexico	57
New York	58
North Carolina	59
North Dakota	59
Ohio	60
Oklahoma Territory	62
Oregon	62
Pennsylvania	63
Rhode Island	64
South Carolina	64

	PAGE
Statutory Requirements— <i>Con.</i>	
South Dakota	65
Tennessee	66
Texas	66
Utah	67
Vermont	67
Virginia	68
Washington	69
West Virginia	70
Wisconsin	71
Wyoming	72
Stocks and Dividends of American Fire Insurance Companies for Twenty-five Years	186-193
Swiss Fire and Fire Reinsurance Companies	78
Taxes and Fees, State	132
Term Fire Risks and Rates	204-205
Tennessee, Fire Insurance in	174
Tennessee, Fire Protection and Water Supply in—Appendix	274
Tennessee, Mutual Companies	306
Tennessee, Statistics of Fire and Marine Companies in	271
Tennessee, Statutory Requirements	66
Territorial Legislatures, State and	133
Texas, Fire Insurance in	175
Texas, Fire Protection and Water Supply in—Appendix	277
Texas, Statistics of Fire and Marine Ins. Cos.	273
Texas, Statutory Requirements	66
Total Fire Insurance in the United States	315
Trustees of Foreign Companies in the United States (See Addenda)	117-118
Turkey, Fire Insurance Companies in	82
Underwriters Organizations (See Addenda)	194-197
Underwriters at Various Lloyds	220-235
Union Short Rate Table	135
United States Trustees of Foreign Companies (See Addenda)	117-118
Utah, Fire Insurance in	177
Utah, Fire Protection and Water Supply in—Appendix	286
Utah, Statistics of Fire Insurance Companies	273
Utah, Statutory Requirements	67
Vermont, Fire Insurance in	176
Vermont, Fire Protection and Water Supply in—Appendix	287
Vermont, Mutual Companies	306
Vermont, Statistics of Fire and Marine Companies in	273
Vermont, Statutory Requirements	67
Virginia, Fire Insurance in	177
Virginia, Fire Protection and Water Supply in—Appendix	291
Virginia, Mutual Companies	307
Virginia, Statistics of Fire and Marine Companies	273
Virginia, Statutory Requirements	68
Washington, Fire Insurance in	179
Washington, Fire Protection and Water Supply—Appendix	296
Washington, Statutory Requirements	69
West Virginia, Fire Insurance in	178
West Virginia, Fire Protection and Water Supply in—Appendix	299
West Virginia, Statistics of Fire and Marine Companies in	275
West Virginia, Statutory Requirements	70
Wisconsin, Fire Insurance in	179
Wisconsin, Fire Protection and Water Supply—Appendix	301
Wisconsin, Mutual Companies	307
Wisconsin, Statistics of Fire and Marine Companies in	275
Wisconsin, Statutory Requirements	71
Written and in Force, Risks	206-208
Wyoming, Fire Insurance in	180
Wyoming, Fire Protection and Water Supply—Appendix	311
Wyoming, Statutory Requirements	72

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INDEX TO ADVERTISERS.

	PAGE		PAGE
Aachen & Munich Fire Insurance Company, Aix la Chapelle, Germany.....	xxvii	Farmers Insurance Co., Cedar Rapids, Ia....	xxxii
Ætna Life Insurance Company, Hartford....	xii	Farmers and Mechanics Ins. Co., Alexandria, Va.....	xxxix
Adams & Boyle, Little Rock.....	357	Farragut Fire Insurance Company, N. Y....	xxix
Agricultural Ins. Co., Watertown, N. Y.....	30	Fidelity and Casualty Company, New York....	30
Alfriend, Thomas L., Richmond, Va.....	414	Franklin Fire Insurance Co., Philadelphia....	xx
American Fire Insurance Co., New York....	16	Franklin Insurance Co., Wheeling, W. Va....	xli
American Fire Insurance Co., Philadelphia..	xviii		
American Surety Co., New York.....	iv	Gale, A. F. & Co., Minneapolis, Minn.....	373
Armstrong, C. B. & Co., Buffalo, N. Y.....	386	Gay, Edward S., Atlanta.....	338
Ashbridge & Co., Baltimore, Md.....	365	Georgia Home Ins. Co., Columbus, Ga.....	xxiii
Atlantic Mutual Fire Ins. Co., Providence....	26	Gephart, G. W., Salt Lake City, Utah.....	412
Atlas Mutual Fire Ins. Company, Boston....	2b	Germania Fire Insurance Co., New York....	2
		Germania Life Insurance Co., New York....	24d
Barbee & Castleman, Louisville.....	361	German Fire Insurance Co., Wheeling.....	xli
Bay State Mutual Fire Ins. Co., Boston.....	25	German Insurance Co., Freeport, Ill.....	xxix
Beers, Kenison & Co., Galveston, Tex.....	410	Gilman, E. C., Denver, Col.....	335
Berkshire Life Ins. Co., Pittsfield, Mass....	v	Granite State Ins. Co., Portsmouth, N. H....	xiv
Berry & Co., Kansas City, Mo.....	377	Guarantee Co. of N. A., Montreal, Can.....	26
Black & Baird, Pittsburgh.....	403		
Blake, W. J. & Co., Chicago.....	341	Hammond, Fry & Sheldon, Chicago.....	342
Blake & Taylor, Boston.....	25	Hartford Fire Ins. Co., Hartford.....	xli
Boome, J. & D., Dallas, Tex.....	409	Heath, Chas. E., Philadelphia.....	402
Bowles, Thos. H., Milwaukee, Wis.....	418	Henderson, Sam, Son & Co., New Orleans....	363
Braun, Max, New Orleans, La.....	363	Hobbs, H. H., New York.....	427
Brennan, Love & Co., Omaha, Neb.....	381	Home Insurance Co., New York.....	iii
Bristol, J. I. D., New York.....	389		
Bristol, John I. D., Gen. Special Agent, N. Y.	24e	Ins. Co. of North America, Philadelphia....	xvii
British America Assurance Co., Toronto....	xxvi	Insurance Trust, New York.....	xxxvi
Broadway Insurance Co., New York.....	28	Iowa Life Ins. Co., Sioux City, Ia.....	xxii
Brooks & Baker, Denver, Col.....	335		
Brown, Craig & Co., San Francisco, Cal....	333	Janvier & Moss.....	362
Brown, Charles R., Galveston, Tex.....	410	Jefferson Insurance Co., Wheeling.....	xli
Brown, T. Y., New York.....	389	John Hancock Mut. Life Ins. Co., Boston...xiv	26
		Jordan, Lovett & Co., Boston.....	366
Caledonian (Fire) Insur. Co. of Scotland....	viii		
Campbell & Keilner, Buffalo.....	386	Kansas Mutual Life Ass'n, Topeka, Kan....	xxxv
Canada Life Assurance Co., Hamilton.....	xxv	Kehlbeck, J. A., New York.....	389
Cincinnati Insurance Co., Cincinnati, O....	xxx	Kellogg, L. & Co., Chicago.....	342
Cincinnati Underwriters, Cincinnati, O....	xxxii	Kenny & Ratcliffe, General Agents, N. Y....	24d
Clark, D. A., Baltimore.....	365	Knowles, Clarence, Atlanta, Ga.....	339
Close & Cannon, Salt Lake City, Utah.....	412		
Cobb, H. H., Atlanta, Ga.....	338	Lamey, H. T., Denver, Col.....	335
Colby, C. H., Denver, Col.....	335	Lancashire Ins. Co., Manchester.....	23
Colquhoun, R. B., San Francisco.....	333	Laton, Chas. A., San Francisco.....	333
Commercial Alliance L. Ins. Co., New York..	xli	Lawyers Title Ins. Co., N. Y.....	24a
Commercial Union Assurance Co., London....	22	Le Craw, C. V., Nashville.....	408
Commonwealth Mutual Fire Ins. Co., Boston.	25	Leigh, L. B., Little Rock, Ark.....	330
Connecticut Mutual Life Ins. Co., Hartford..	xi	Life Insurance Co. of Va., Richmond.....	xxi
Cotton, S. O. & Bro., Houston.....	410	Liverpool and London and Globe Ins. Co....	i
Covenant Mutual Life Ins. Co., St. Louis....	xxiii	Liverpool and London and Globe, Southern Department, New Orleans.....	363
Covington, John I., New York.....	2	London Guarantee & Accident Co. of London.	xv
Cox, George A. and E. W., Toronto.....	424	Lyman & Stroudback, New Orleans.....	363
Coyne, Robt. M., Philadelphia.....	403		
Crandall, G. L., New Orleans.....	363	Macon Insurance Co., Macon, Ga.....	xxxii
Crescent Insurance Co., New Orleans.....	xxxiii	Magill & Chamberlin, Chicago.....	342
Critchell, C. R., Denver, Col.....	335	Manhattan Life Insurance Co., New York..	xxvii
Critchell, R. S., Chicago.....	342	Manufacturers Automatic Sprinkler Co., Syracuse, N. Y.....	24b
Danforth, J. L. & Co., Louisville, Ky.....	361	Manufacturers and Mer. Mut. Rockford, Ill..	xxviii
Day, J. B., San Antonio, Tex.....	411	Marks, Ferdinand, New Orleans.....	363
Deming, J. C., Baltimore.....	427	Massachusetts Mut. L. Ins. Co., Springfield.	ix
Dexter, G. J., Dallas, Tex.....	409	Maury & Donnelly, Baltimore.....	365
Dow & Pinkham, Portland, Me.....	364	McCaffrey, Geo. J., Baltimore.....	427
Dunlap & Co., New York.....	24c	Mechanics & Traders Ins. Co., New Orleans	xxxv
Du Val, E. B. & Co., Baltimore, Md.....	365	Mercantile Credit Guarantee Co. of N. Y....	16
		Mercantile Mut. Fire Ins. Co., Philadelphia..	27
Elwes, F. P. & Co., Chicago.....	342	Merchants and Manuf'rs Ins. Co., Cincinnati	xxx
Employers Liability Assurance Corp. of London.....	10	Merchants Ins. Co. of New Orleans.....	xxxiv
Equitable Life Assurance Soc'y, New York..	13		
Essex Mutual Fire Insurance Co., Boston....	25		

	PAGE		PAGE
Metropolitan Life Ins. Co., New York	29	Rogers, F. D., Chicago	342
Montgomery & Funkhouser, Chicago	342	Roe, Hibberd & Hibberd, Louisville, Ky.	362
Mutual Benefit Life Ins. Co., Newark	27	Royal Insurance Company, Liverpool	28
Mutual Life and Endowment Ass'n, Indianapolis	xxxii	Rutland Ins. Co., Rutland, Vt.	xxxv
Mutual Life Insurance Company, New York	21	Saginaw Valley F. and M. Ins. Co., Saginaw, Mich.	xxvii
Moesser, H. B., Pittsburgh	400	Sanborn-Ferris Map Co., New York and Chicago	342
Moore & Keating, Buffalo	387	Sears, J. M. & Co., Cincinnati	395
Morphy, W. J., Seattle, Wash	415	Seddon, W. L. & Co., Atlanta, Ga.	339
National City Fire Ins. Co., Washington	xxxviii	Seddon, W. L. & Co., Richmond, Va.	414
National Credit Insurance, Minneapolis	xxiv	Shackelford, W. T., Baltimore	365
National Fire Ins. Co., Hartford, Conn.	xiv	Sheddon, R. F., Atlanta, Ga.	339
National Life Insurance Co. of Vermont	vi	Shumard, M. A. & Co., Dallas	409
Nederland Life Ins. Co., Ltd.	24	Smith, Davis & Co., Buffalo	387
New England Mutual Fire Ins. Co., Boston	25	Southern Insurance Company, New Orleans	xxxiv
New England Mutual Life Ins. Co., Boston	xv	So. and No. American Lloyds, New York	xxxvi
New Orleans Ins. Ass'n, New Orleans	xxxiii	Southern Industrial Ins. Co., New Orleans	xxxiii
New York Bowery Fire Ins. Co., New York	xxxvii	Sondheim, Anton & Son, New York	390
New York Central Lloyds, New York	xxxvii	Springfield F. and M. Ins. Co., Springfield	B
New York Life Ins. Co., New York	ii	Spring Garden Ins. Co., Philadelphia	xx
New York Underwriters Agency, N. Y.	A	Standard L. and A. Ins. Co., Detroit	10
Niagara Fire Insurance Co., New York	viii	State Mut. Life Assurance Co. of Worcester	x
Niblock, H. C., Chicago	342	Stearns Bros., Boston	366
Nicoll & Roy Co., Printers, New York	12a	Stubbs, John A., Galveston	410
North American Life Ass'n Co., Toronto	xxxvi	Suffolk Mutual Fire Ins. Co., Boston	26
North British and Mercantile Insurance Co.	vii	Sun Insurance Office, London	viii
North & Vedder, Buffalo	387	Sun Life Ins. Co. of America, Louisville, Ky.	xxix
Norwich Union Fire Ins. Society, England	v	Swineford, Howard, Richmond	414
Old Colony Mutual Fire Ins. Co., Boston	2a	Taylor, J. C., Salt Lake City, Utah	412
Pacific Mutual Fire Insurance Co.	25	Teutonia Ins. Co., New Orleans	xxxlii
Paige, John C., Boston	366	Thomas, Jas. A., Nashville	408
Palatine Ins. Co. (Lim.) of Manchester	28	Tilles, George, Little Rock, Ark.	330
Parker, R. A. & Sons, Memphis	408	Travelers (Life and Acc.) Ins. Co., Hartford	xiii
Paull, Alfred, Wheeling, W. Va.	416	Tredick, Chas. & Co., Philadelphia, Pa.	403
Penn Mutual Life Ins. Co., Philadelphia	xviii	Trezevant & Cochran, Dallas, Tex.	409
Pennsylvania Fire Insurance Co., Phila.	xix	Tynberg & Co., New York	390
Perkins, E. R., Denver, Col.	335	Uhlfelder, Augustus, Montgomery, Ala.	329
Phenix Ins. Co., Brooklyn, N. Y.	vii	Union Central Life Ins. Co., Cincinnati	xxx
Philadelphia Fire Lloyds, Philadelphia	xix	Union Lloyds, New York	xxviii
Phoenix Assurance Co., London	iv	United States Life Ins. Co., New York	xxiv
Phoenix Mutual Life Ins. Co., Hartford	xiii	United Underwriters, New York	xxxvi
Piper, E. P., Denver	335	Virginia F. and M. Insurance Co., Richmond	xxii
Planters Ins. Co., Alexandria, Va.	xxxix	Virginia State Ins. Co., Richmond	xxii
Post & Bowles, New Orleans	363	Voss, Conrad & Co., San Francisco	xxviii
Powell, T. C., Little Rock, Ark.	330	Wagner, Geo. E., Philadelphia	403
Pratt, A. S. & Sons, Washington, D. C.	338	Western Assurance Company, Toronto	xxvi
Preferred Accident Insurance Co., N. Y.	B	Western Mass. Manufacturers Mutual Fire Ins. Co., Springfield	27
Provident Life and Trust Co., Philadelphia	xix	West, J. R., Richmond, Va.	414
Provident Savings Life Assurance Soc., N. Y.	3a	Wheeler, L. A., Milwaukee, Wis.	418
Providence-Washington Ins. Co., Providence	xvi	Whitton, John M., New York	390
Prudential Ins. Co. of America, Newark	14, 15	Williams, Oliver, Denver, Col.	335
Queen Insurance Company of America	22	Willcox, James S., Montgomery, Ala.	329
Railey, W. M., New Orleans	363	Wilson, H. T. D., Houston, Tex.	410
Reed, Wm. H., Kansas City	377	Woods, A. A. & Co., New Orleans	363
Reinhardt, I. & Son, Dallas, Tex.	409	Worthington & Sill, Buffalo, N. Y.	387
Reliance Ins. Co., Philadelphia	xx		
Rice, S. L., Cincinnati	395		
Rochester German Ins. Co., Rochester	x		

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SURPLUS,	<u>\$32,366,750.33</u>
INCOME,	\$42,022,605.55
New Business written in 1893,	205,280,227.00
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Rail Road Bonds (Market Value).....	2,450,563 75
Municipal Bonds.....	616,069 50
Cash in Banks and Office.....	875,783 03
U. S. Gov. Bonds (Market Value)...	112,500 00
Interest and Rents, due and accrued.....	119,312 48
Loans on Policies.....	20,936 20
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Total.....	\$11,021,444 93

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Increase in Premium Receipts.....	1,559,000 78
Increase in Interest and Rents.....	74,033 86
New Insurance written, over.....	134,000,000 00
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WAS the pioneer in industrial insurance on this side of the water. That it set in operation forces of no mean power, may be inferred from the fact that within fourteen years of its organization, industrial insurance has attained such proportions that the two leading companies follow immediately after the three largest ordinary life insurance companies in the United States, in amount of business written. That the system introduced in 1876 met a need of the people is shown from the fact that there are, to-day, much more than 7,000,000 industrial policies in force in this country. Of these, the PRUDENTIAL issued, in 1893, over 1,000,000.

The plan of the PRUDENTIAL is, precisely similar to that of ordinary life insurance companies, based upon correct principles. It is founded upon a system which has been demonstrated by science and proved by the experience of nearly two centuries to be the only satisfactory method of furnishing indemnity for death. It differs from ordinary companies only in matters of detail, in its adaptation to the wants of its patrons. Its principal peculiarities are: That, while the ordinary companies do not issue a policy for less than a thousand dollars, except in rare cases, the PRUDENTIAL will issue one for ten dollars. Most companies require the premium to be paid at infrequent intervals, and in comparatively large sums, while the PRUDENTIAL receives them weekly, each of small amount, thus relieving its policy from becoming a burden. The object of an ordinary policy is to provide an estate, that of the PRUDENTIAL is to provide a burial fund to the family of the laboring man at a time when a little ready money is most needed and most appreciated. Ordinary life insurance discriminates against women—either they do not receive them or charge a higher premium for such insurance. The PRUDENTIAL insures women in its industrial branch upon the same basis as it takes male risks. No ordinary company will insure children. The PRUDENTIAL has over a quarter of a million policies in force upon children's lives.

The extent to which the PRUDENTIAL has won the confidence of the people is shown from the fact that it has insurance in force aggregating two hundred and fifty millions of dollars. Its policyholders, if gathered together into a single community, would form a city larger, as regards population, than any city in the country, while the male citizens of such a town would exceed in number the muster roll of the majority of the standing armies of the world. The amount of money for which the PRUDENTIAL is liable, under its existing contracts, is nearly equal to the total value of the gold and silver produced in Idaho and Colorado since the first discovery of the precious metals in those districts. It exceeds the value of the annual export from the United States of gold and silver bullion, by many millions of dollars, and would suffice to pay the funded debt of the States of Massachusetts, New York, Pennsylvania and Virginia. It would purchase the entire cotton manufacturing interests of Massachusetts and Rhode Island, and the lumber men of Michigan, Pennsylvania and Wisconsin would dispose of the entire product of their industry for that sum.

The death claims paid by the PRUDENTIAL to the present time have included in their benefits not less than 800,000 persons, a number exceeded by the population of but five or six of the principal cities of the country; while the sum of fifteen million dollars, the amount of death claims paid, is larger than the sum expended in twelve years by any one of those cities for the relief of the indigent distributed within their borders.

THE FIRST CREDIT GUARANTEE COMPANY INCORPORATED UNDER THE
INSURANCE LAWS OF THE STATE OF NEW YORK.

Capital, \$250,000.

Deposited Supt. of Insurance, \$100,000.

The Mercantile Credit Guarantee Co.

OF NEW YORK.

HEAD OFFICE: 291 BROADWAY, NEW YORK CITY.

ISSUES CONTRACTS INDEMNIFYING MERCHANTS AGAINST LOSSES THROUGH THE
FAILURE OF THEIR CUSTOMERS.

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Bank.

W. H. MALE, President Atlantic Trust Co.

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E. C. CONVERSE, Gen. Mgr. Nat'l Tube Works Co.

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Columbus, Ga.

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ORGANIZED 1857.

AMERICAN

FIRE INSURANCE COMPANY

OF NEW YORK.

146 BROADWAY, MUTUAL LIFE OLD BUILDING, NEW YORK.

CASH CAPITAL.....	\$400,000.00
Unearned Premiums and other Liabilities.....	973,752.06
Net Surplus, January 1, 1894.....	138,818.22
Total Assets.....	\$1,512,570.28

DAVID ADEE, PRESIDENT.

WM. H. CROLIUS, Vice-President and Secretary.

CHAS. P. PIERCE, Assistant Secretary.

SILAS P. WOOD, Manager of Agencies.

PUBLISHERS' ANNOUNCEMENT.

The publishers take great pleasure in presenting to the insurance fraternity the twenty-second annual issue of **THE INSURANCE YEAR BOOK**. It is with much pride that we point to the improvements made in this publication from year to year. The yearly increase in the material that it seems necessary to include in such a cyclopedia of insurance information has added to the volume year by year until its division into two parts three years ago became a matter of necessity. One of these parts is devoted to **FIRE AND MARINE INSURANCE** and the other to **LIFE AND MISCELLANEOUS INSURANCE**; each part is complete in itself, and each contains a mass of valuable matter that can be found in no other publication. **THE INSURANCE YEAR BOOK** has achieved a reputation for fullness of detail and accuracy of compilation that have made it standard authority upon all matters pertaining to the business of insurance.

In addition to the regular statistics of American stock and mutual and foreign companies doing business in this country, which are given in comparative form for five years, there are many other statistical exhibits that are invaluable to the officers, stockholders and agents of insurance companies. All statistical matter is compiled from the latest official data, the New York and Massachusetts Insurance Departments' reports being the principal authority relied upon for the companies doing business in those States; for other companies we have obtained their statistics from the official reports of other States wherein they do business, or other official sources.

As a full and complete index will be found in each part of **THE YEAR BOOK**, it is not necessary in this place to indicate the special features of this volume. Most careful effort has been made to attain correctness in every detail, and some statistics have been added this year not included in previous volumes.

We beg to acknowledge our obligation to all who have so kindly rendered us assistance in obtaining the data for the work. Our thanks are especially due to the heads of the Insurance Departments of the various States for their courtesy and promptness in furnishing us with information.

THE SPECTATOR COMPANY.

NEW YORK, July 1, 1894.

ADDENDA.

EAGLE, Cincinnati, O.—Reinsured in the Commercial, Cincinnati.

HOME FIRE, Salt Lake City, Utah.—Officers and directors: Heber J. Grant, president; George Romney, vice-president; L. S. Hills, treasurer; R. S. Wells, secretary; John R. Barnes, Elias A. Smith, John Hy. Smith, John C. Cutler, Chas. S. Burton, Jos. F. J. Smith, H. Dinwoodey, Thos. G. Webber, Wm. H. Rowe, David Eccles, P. T. Farnsworth. Statements for 1892 and 1893.—1893: Capital, \$250,000; assets, \$345,705; net surplus, \$51,339; premiums, \$31,929; total income, \$72,676; losses, \$7486; dividends, \$18,750; expenses, \$32,008; total expenditures, \$58,244. 1892: Capital, \$250,000; assets, \$340,948; net surplus, \$47,815; premiums, \$47,735; total income, \$76,377; losses, \$3056; dividends, \$25,000; expenses, \$23,210; total expenditures, \$51,266.

QUEEN OF AMERICA, New York.—S. Y. Tupper, Atlanta, Ga., succeeds J. H. M. Morris as manager of the Southern and Central department.

CHICAGO UNDERWRITERS ASSOCIATION.—Officers: President, S. A. Rothermel; vice-president, C. S. Pellett; secretary, R. M. Trimmingham; T. A. Bowden, superintendent. Executive Committee—J. H. Moore, E. M. Teall, C. W. Drew, W. W. Dudley, W. F. Rollo, J. M. Neuberger, T. W. Letton.

GUARDIAN, London.—Reinsured in New York Underwriters Agency, New York; Union, London; Fire Association, Philadelphia.

OAKLAND HOME, Oakland, Cal.—Reinsured in Firemans Fund, San Francisco.

PEQUANNOCK, Stanton, Va.—Failed.

NEW JERSEY UNDERWRITERS ASSOCIATION.—President, R. P. Conlon, Newark; vice-president, J. W. Cheney, Camden; secretary and treasurer, I. W. Rogers.

GLOBE FIRE, New York.—F. A. Colley, Boston, manager for New England.

STATE INVESTMENT AND INSURANCE, San Francisco, Cal.—F. H. Mersbach, receiver.

NEW YORK AND BOSTON INSURANCE COMPANY, New York.—R. H. Underhill, receiver.

FIDELITY, Cincinnati, O.—Reinsured in Merchants and Manufacturers, Cincinnati.

NORTHWEST FIRE AND MARINE, Portland, Ore.—Directors: J. McCracken, H. L. Pittock, F. Eggert, F. K. Arnold, J. K. Gill, F. M. Warren, D. D. Oliphant, J. Lowenberg, J. S. Cooper, S. E. Young, E. P. McCornack.

ATLANTA HOME, Atlanta, Ga.—Directors: S. M. Inman, T. L. Langston, Thomas G. Healy, H. T. Inman, Jas. H. Porter, Robert J. Lowry, Henry Jackson, Joel Hurt, Geo. Winship. The company operates in Georgia, New York, South Carolina, Tennessee, Alabama, Louisiana, Texas and Illinois. J. S. Daniell is in charge of the field work.

NEW ORLEANS INSURANCE ASSOCIATION, New Orleans.—Directors: Hy. Tremoulet, E. W. Huntington, A. D. Lanau, J. B. Vinet, J. P. Zatarain, F. E. Bernard, O. A. Schneidau, S. Hershheim, P. Pozzi, H. Lange, G. Cusachs, Geo. Lanau. The company operates in Louisiana, Arkansas, Mississippi and Texas. Its field men are: Adams & Boyle, general agents for Arkansas; Beers, Kenison & Co., general agents for Texas; E. S. Walton, special agent for Mississippi.

FRANKLIN INSURANCE COMPANY, Louisville, Ky.—Directors: George W. Morris, president; John J. Barret, secretary; J. S. Phelps, J. J. Harbison, W. W. Hite, E. W. Chamberlain, W. T. Rolph, J. M. Atherton, John White, H. W. Barret, J. S. Lithgow, W. R. Ray, John W. Barr, Jr., and J. P. Torbitt.

COLUMBIA, Washington, D. C.—Directors: Charles J. Bell, A. T. Britton, R. I. Fleming, James A. Bates, C. C. Glover, Thomas M. Gale, J. E. Gadsby, R. O. Holtzman, J. S. Larcombe, F. B. McGuire, M. M. Parker, B. P. Snyder, W. R. Wilcox. The company operates only in the District.

EQUITABLE FIRE AND MARINE, Providence, R. I.—Directors: Henry C. Cranston, Thomas J. Hill, Fred W. Arnold, John S. Palmer, Josiah W. Crocker, C. B. Arnold, Jr., Robert E. Northam, Nelson W. Aldrich, John Waterman, Orlando H. Davenport, Andrew G. Weeks, Julius Palmer, Herbert F. Hinckley, Henry Pearce, Wm. C. Peirce.

NORWICH UNION FIRE INSURANCE SOCIETY, Norwich, Eng.—United States Trustees: Anson W. Hard, J. Kennedy Tod, W. Emlen Roosevelt.

PLANTERS AND MERCHANTS INSURANCE COMPANY, Mobile, Ala.—Directors: W. H. Fitzpatrick, J. C. Bush, A. P. Bush, Hugo Brown, D. R. Burgess, L. Eichold.

NEW YORK UNDERWRITERS AGENCY, New York (Hartford Fire Insurance Company).—Reinsured risks of Guardian of London in many of the Eastern, Southern and Western States, retaining, in most cases, the representatives of the Guardian.

MERCHANTS AND MANUFACTURERS, Clinton, Ia.—Directors: A. Lamb, Geo. M. Curtis, A. R. Olney, L. B. Wadleigh, C. F. Curtis, D. L. Ryder, J. P. Bignall, A. G. Smith, J. P. Calnan. The company operates in Iowa only, H. L. Spice being special.

KENTUCKY AND TENNESSEE ASSOCIATION.—New officers are: President, James A. Thomas; vice-president, William H. Wheeler; secretary and treasurer, C. B. Rogers. Executive Committee—F. G. Snyder, James C. Johnson, U. F. Morse, J. P. Singleton and E. J. Watkins.

NATIONAL CITY FIRE, Washington, D. C.—Directors: F. A. Stier, D. Gray Purman, Geo. E. Corson, C. H. Underwood, W. O. Dennison, C. H. Burgess, Clarence Baker and L. W. Spear of Washington; Adrian Posey, La Plata, Md.; John C. Mulford, Salem, N. J.

SOUTH-EASTERN TARIFF ASSOCIATION.—Officers were elected in June as follows: President, Thomas Egleston of Atlanta; vice-president, George W. Dewey of North Carolina; secretary, Charles C. Fleming of Atlanta. Executive Committee—Resident members, Samuel Y. Tupper, J. C. Whitmer, W. E. Chapin, A. B. Andrews, C. E. Dox, J. W. Pearce, H. E. Rees and W. L. Reynolds. Associate members, L. R. Warren, Virginia; E. B. Dewey, North Carolina; J. B. Ezell, South Carolina; J. C. Hunter, Alabama; E. W. McCerren, Mississippi; E. W. Wilson, Georgia; Crosby Dawkins, Florida; Clarence F. Low, Louisiana.

WESTERN FACTORY INSURANCE ASSOCIATION.—President, Eugene Harbeck; secretary and treasurer, Geo. W. Blossom. Executive Committee—Eugene Harbeck, Geo. W. Blossom, D. Winslow, J. S. Belden and J. J. McDonald.

MOUNTAIN FIELD CLUB.—President, Frederick O. L. Buck; vice-president, M. V. Benson; secretary and treasurer, W. C. Cree. Executive Committee—T. A. Fisher, C. T. Fertig, H. M. Lee and F. G. White.

EVANSVILLE INSURANCE COMPANY, Evansville, Ind.—Reinsured in Phenix of Brooklyn.

NORTHERN ASSURANCE COMPANY, London.—George H. Lermitt has been appointed manager of the Western department at Chicago.

TARIFF ASSOCIATION OF NEW YORK.—F. W. Whiting, manager, has resigned.

SACO MUTUAL, Saco, Me.—Statement for 1893: Assets, \$68,673; no liabilities or reinsurance reserve; premiums, \$1453; total income, \$4934; losses, \$1576; expenses, \$755; total expenditures, \$2331.

LIBERTY LLOYDS, New York.—C. C. Felker, attorney, 59 William street.

WASHINGTON LLOYDS, New York.—Porter & Armstrong, attorneys, 19 Liberty street.

NIAGARA FIRE INSURANCE COMPANY, New York.—West Pollock appointed assistant secretary.

EASTERN ASSURANCE COMPANY, Camden, N. J.—Capital stock, \$150,000.

IOWA UNDERWRITERS ASSOCIATION.—W. E. Page, president; W. A. Hand, vice-president; Roger Squire, secretary; William Black, treasurer.

W. J. Landers succeeds Wm. Sexton as Pacific Coast manager of the Imperial and the Lion of London.

ROCHESTER GERMAN INSURANCE COMPANY.—Geo. W. Eastman has been appointed special agent for New England.

NORTH BRITISH AND MERCANTILE INSURANCE COMPANY.—Western department established at Chicago, with Wiley J. Littlejohn as manager and J. C. Griffiths as associate; covers States of Illinois, Michigan, Ohio, Indiana, Wisconsin, Minnesota, North Dakota, South Dakota, Iowa, Missouri, Kansas, Nebraska and Indian Territory.

EASTERN MUTUAL FIRE INSURANCE COMPANY OF PHILADELPHIA (chartered).—Herman Becker, president.

WINTHROP MUTUAL FIRE INSURANCE COMPANY, Boston, Mass.—President, Henry L. Dawes; vice-president, William Claflin; secretary and treasurer, Edward K. Tinker; manager, Giles K. Tinker.

EXCELSIOR MUTUAL FIRE INSURANCE COMPANY, Boston, Mass.—Being organized by I. Wolffsohn.

UNDERWRITERS MUTUAL FIRE, Sioux City, Ia.—Statement for year ending December 31, 1893: Assets (exclusive of \$97,056, net value of premium notes), \$21,372; liabilities, \$20,674; net surplus (excluding premium notes), \$698; net premiums received (total income), \$46,365; net amount paid for losses, \$11,286; for expenses, \$34,824; total expenditures, \$46,110; risks written or renewed, \$2,284,756; in force December 31, \$1,792,045.

CALEDONIAN INSURANCE COMPANY.—Address until August 1, 135 and 137 Broadway. After that date, 27 and 29 Pine street, New York. Reorganized management of United States branch. Chas. H. Post, United States manager; N. A. McNeill, assistant manager; James T. Howes, 2d assistant manager; Byron G. Stark, manager Western department; Geo. W. Dewey, manager Southern department; William Ellsworth, secretary city department; Richard C. Christopher, general agent, Pennsylvania, New Jersey, Delaware, Maryland and District of Columbia; John T. McCurdy, general adjuster; Judson C. Nichols, special agent, New York State; S. S. Banks, special agent, New England; W. L. Steele, State agent, Wisconsin and Minnesota; Otto Schupp, State agent Michigan; J. Geo. Stauffer, State agent, Illinois and Missouri; M. E. Lease, special agent, Iowa, Nebraska, Kansas and South Dakota; Geo. H. Frost, manager, Louisiana and Mississippi department; Stephen French, special agent, Southern States; G. A. Russell, special agent, assistant to General Agent Christopher; Cobb, Wilson & Co., general agents, Wyoming, New Mexico, and Black Hills district; John Nichols, assistant to Secretary Ellsworth.

FARMERS AND MERCHANTS, Lincoln, Neb.—E. A. Racker, secretary, vice S. J. Alexander, resigned.

HOPE MUTUAL FIRE INSURANCE COMPANY, Philadelphia.—Being organized by Wm. Kane.

MERCHANTS MUTUAL FIRE, Charleston, S. C.—E. M. Hacker, president; A. W. Litschgi, secretary.

TEUTONIA, New Orleans.—Closes Northern department, carrying risks to expiration.

MECHANICS AND TRADERS, New Orleans.—Reinsured risks of Northern department in Orient of Hartford.

NORTH BRITISH AND MERCANTILE.—Daniel Winslow becomes assistant manager of United States branch.

The Mutual Life Insurance Company

OF NEW YORK.

RICHARD A. McCURDY, - President.

Has been in existence over

FIFTY-ONE YEARS.

During that period it has accumulated over

\$186,000,000.

IN FIFTY-ONE YEARS THE MUTUAL LIFE OF NEW YORK HAS

	AMOUNT.	PER CENT.
1. Paid to the Beneficiaries of Deceased Members,	\$141,281,671.09=	26.0
2. Paid to Living Members, for Matured Endowments, Annuities, Surrender Values and Dividends,	226,069,969.17=	41.5
3. Balance of Income Accumulated for paying Claims and Dividends, - - - - -	176,786,059.81=	32.5
Total benefits to Policyholders, - - -	\$544,137,700.07=	100.0
The Interest, Rents and Profits have exceeded Death Claims by,	\$3,622,523.42	
The Interest, Rents and Profits have exceeded Expenses by,	55,992,365.18	

This Company does not encourage the issuance of policies upon the lives of persons who have no real intention or ability to maintain the insurance in force. Solicitors and canvassers who can secure bona fide applications for insurance by honest and business-like methods will be offered favorable contracts with liberal terms, based upon the collection of annual cash premiums at the Company's published rates.

For further information address any General Agent of the Company, or the

HEAD OFFICES,

COMPANY'S BUILDING,

Nassau, Cedar and Liberty Streets,
NEW YORK.

QUEEN

INSURANCE COMPANY OF AMERICA.

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Commercial Union
Assurance Co., Ltd.
OF LONDON.

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NEW YORK.

Send two-cent postage stamp to

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NO. 95 WILLIAM STREET,

NEW YORK,

FOR

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LANGASHIRE
INSURANCE COMPANY
OF MANCHESTER, ENGLAND.

ESTABLISHED 1852.

DIGBY JOHNSON, GEN'L MANAGER OF THE COMPANY,
MANCHESTER, ENGLAND.

NEW YORK OFFICE:
—25 PINE STREET—

(IN THE COMPANY'S OWN BUILDING).

Entered the United States in 1872.

NEDERLAND

LIFE INSURANCE COMPANY, Ltd.

ESTABLISHED 1858, AMSTERDAM, HOLLAND.

UNITED STATES BRANCH, 874 BROADWAY, NEW YORK.

L. I. DUBOURCQ.....	General Manager of the U. S. Branch (Formerly manager of the "Nederland" in Amsterdam.)
S. J. HOGERZEIL	Secretary
CLARK MELLEN.....	Deputy Secretary
A. J. VAN OOSTVEEN.....	Treasurer

AGENCY DEPARTMENT.

CHAS. H. P. LANGRAND	Superintendent
ROBERT L. WOLTERBEEK.....	Secretary

PROTECTION AT THE LOWEST POSSIBLE COST

is offered by the "NEDERLAND" in its unique *Five Year Term Combination Plan*, with rates during the Five Year Term, on an average 40 per cent lower than the premiums charged by the American Companies.

At the expiration of the Five Year Term the insured can continue his insurance *without submitting to another medical examination* by taking either a *Life* or *Endowment Policy*, or a *Renewable Five Year Term* at the rate of the age then attained.

THE "NEDERLAND'S"

COMBINED ENDOWMENT AND LIFE INCOME

policies demonstrate how Insurance can be combined with *sound investment*.

The Surrender and Terminal Options are unprecedented.

THE ONE YEAR RENEWABLE TERM PLAN

entitles the insured to change *at any time without another medical examination, to any other plan* the "NEDERLAND" offers.

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Same rates for both sexes. All policies for the United States written at the Co.'s Branch Office, N. Y. Incontestability clause after one year in conditions of policies.

INSURANCE OF REAL ESTATE TITLES.

The Lawyers' Title Insurance Company

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OFFERS:

1. To Borrowers upon Bond and Mortgage, an unlimited amount of money for Good Loans, with fixed and reasonable rates for Examination and Insurance of Title.
2. To Purchasers of Real Estate, Reasonable Loans to complete purchases without additional cost.
3. To Investors on Bond and Mortgage, Good Loans, either direct or by assignment from the Company, accompanied by Policy of Title Insurance.
4. To all, Examination of Title by responsible and experienced Counsel acting in the interest of the client, AND Insurance by a Corporation of large capital.

Capital and Surplus, Jan. 1, 1894, \$1,573,685.24

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WILLIAM P. DIXON, of Miller, Peckham & Dixon.	CHARLES E. STRONG..... of Strong & Cadwalader.
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HENRY E. HOWLAND..... of Anderson & Howland.	JAMES M. VARNUM..... of Varnum & Harrison.
JOHN T. LOCKMAN, of DeWitt, Lockman & DeWitt.	JOHN WEBER.

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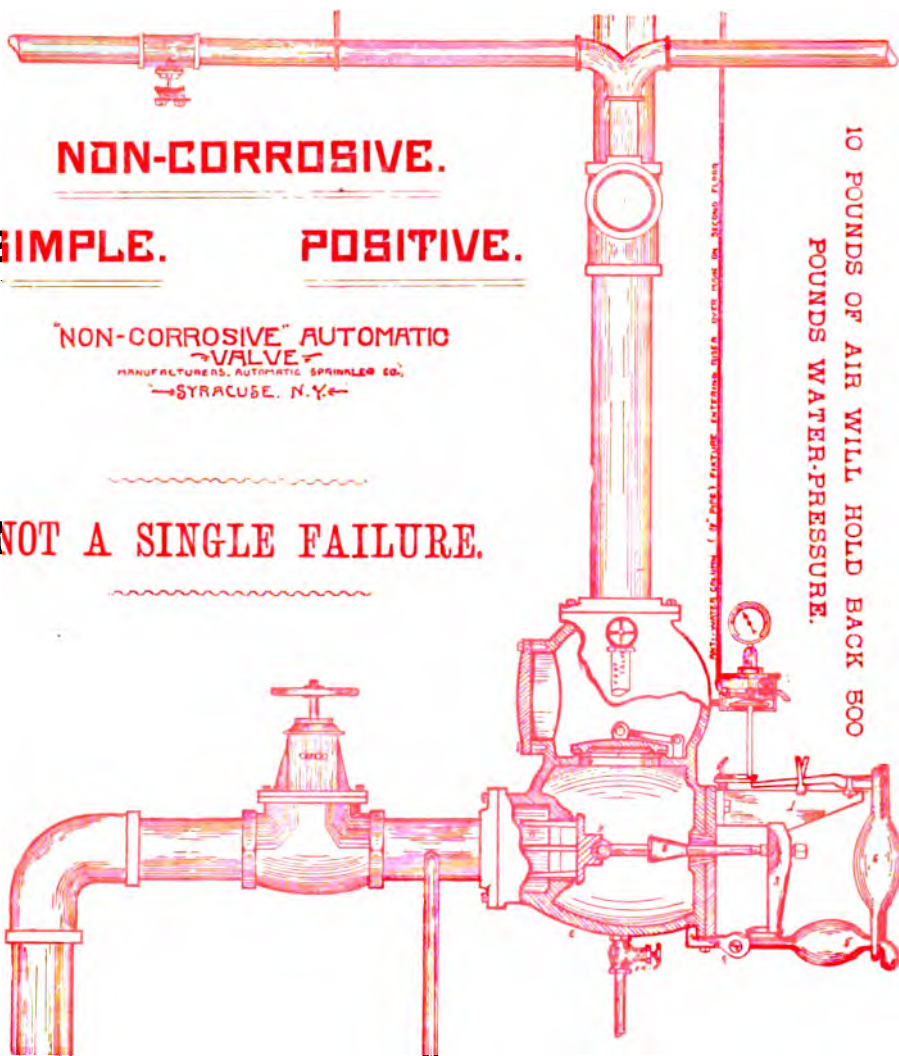
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Nos. 37 and 39 Liberty St. and Nos. 44½ and 46 Maiden Lane,

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THE NON-CORROSIVE AUTOMATIC SPRINKLERS

Both Pendant and Upright.

Distribution is perfect, and heads are tested to 500 pounds pressure.

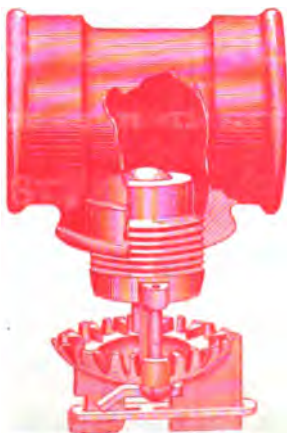
Pendant Head is Self-Drained

As Valve Seat is flush with water line.

Deflector on upright Head is a rotary, but distribution is as perfect, should same become stationary.

Estimates Cheerfully Given.

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of Hats must see to it that the above Trade Mark
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Accredited Agencies in all the Principal Cities.



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DIVIDEND TONTINE POLICIES.

Assets, January 1st, 1894.....	\$18,689,858.84
Surplus (by 4 per cent Standard).....	1,187,927.96
Surplus (by 4½ per cent Standard).....	2,048,599.96
Paid to Policyholders since organization	29,984,625.97

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and successful business methods.

All Policies Protected from Forfeiture by Massachusetts
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Surplus lines written on desirable risks throughout the United States.

INCORPORATED 1829.

DAVID MOORE, Pres. and Treas. CHARLES H. ODELL, Sec.

ESSEX

Mutual Fire Insurance Company,
SALEM, MASS.

FRANK A. COLLEY, General Agent for United States,

No. 22 Exchange Place,
BOSTON, - - MASS.

Correspondence solicited from Agents and
Brokers controlling large lines of insurance.

BLAKE & TAYLOR,

INSURANCE,

BOSTON.

United States Managers

COMMONWEALTH MUTUAL
Fire Insurance Co.

United States General Agents

BAY STATE MUTUAL
Fire Insurance Co.

PACIFIC MUTUAL
Fire Insurance Co.

SURETYSHIP FOR EMPLOYEES.

THE ORIGINAL COMPANY IN AMERICA.

THE GUARANTEE COMPANY OF NORTH AMERICA

ESTABLISHED 1872.

Total Resources, \$1,176,402.29
 Deposited with the Insurance Department at Albany, and in hands of
 U. S. Trustees, 365,000.00

This Company's business is solely that of issuing Bonds of Suretyship for Officers and Employees in positions of trust, whereby the necessity for private suretyship is abolished.

This was the FIRST COMPANY TO INTRODUCE THIS SYSTEM IN THE UNITED STATES, and is the only one whose whole Capital and Funds are especially applicable thereto. It is under the same experienced management which has for over thirty-five years successfully transacted the business.

HEAD OFFICE:

MONTREAL.

PRESIDENT AND MANAGING DIRECTOR,
EDWARD RAWLINGS.

NEW YORK DIRECTORS:

H. W. CANNON, Pres. Chase National Bank.

JAY O. MOSS.

W. BUTLER DUNCAN, Pres. Wobbe and Ohio R. R.

JOHN PATON, John Paton & Co.

GEN. HORACE PORTER, Vice-Pres. Pullman's Palace Car Co.

JAMES E. PULSFORD.

OFFICES: 111 BROADWAY,
Secretary, D. J. TOMPKINS.

London (Eng.) Branch, 55 Old Broad Street.

J. SEYMOUR SCOTT, Agent.

U. S. BRANCHES:

NEW YORK.
CHICAGO.
ST. PAUL.

BOSTON.
ST. LOUIS.
LOUISVILLE.

PHILADELPHIA.
DENVER.
NASHVILLE.

PITTSBURG.
OMAHA.
RICHMOND.

DETROIT.

JORDAN, LOVETT & CO.

FIRE INSURANCE,

60 State Street, Boston.

GENERAL AGENTS FOR THE UNITED STATES

OF THE

Suffolk Mutual Fire Ins. Co.

OF BOSTON,

Commercial Mutual Fire Ins. Co.

OF PROVIDENCE, R. I.

Aquidneck Mutual Fire Ins. Co.,

NEWPORT, R. I.

AGENTS OF THE

ÆTNA INS. Co., Hartford.

LIVERPOOL & LONDON AND GLOBE INS. Co.

DETROIT F. & M. INS. Co., Detroit, Mich.

FIREMEN'S INS. Co., Boston.

INSURANCE Co. No. AMERICA, Phila., Pa.

QUEEN INSURANCE Co.

PENNSYLVANIA INS. Co., Phila., Pa.

AGRICULTURAL INS. Co., New York.

MASS. MUTUAL FIRE INS. Co., Boston.

NEW HAMPSHIRE FIRE INS. Co., Manchester.

AMERICAN INS. Co., Philadelphia, Pa.

DWELLING HOUSE INS. Co., Boston.

PHENIX INSURANCE Co., New York.

COMMERCIAL UNION ASSURANCE Co., England.

CHARLES ALEXANDER,
President.

GEO. C. NEWELL,
Secretary.

ATLANTIC MUTUAL

FIRE INSURANCE COMPANY

Of Providence, R. I.

STARKWEATHER & SHEPLEY, General Managers.

Directors:

CHARLES ALEXANDER, of Alexander Bros., Wholesale Grocers.

OLNEY ARNOLD, Pres't First National Bank of Pawtucket, R. I.

EDWARD A. GREENE, Pres't Greene & Daniels Mfg. Co., Pawtucket, R. I.

CHAS. H. SPRAGUE, of S. S. Sprague & Co., Merchants.

GEO. H. ROBINSON, Vice-Pres't Gorham Mfg. Co.

GEO. F. LEETE, Treas. Butler-Duncan Land Co.

JOHN SHEPARD, Jr., Shepard & Co., Merchants.

GEO. L. SHEPLEY, Starkweather & Shepley.

J. EDWARD STUDLEY, Treas. Wm. H. Low Estate Co.

GEO. P. GRANT, Pres't Grant Yarn Co., Fitchburg, Mass.

GEORGE C. NEWELL, Starkweather & Shepley.

The Mutual Benefit

LIFE INSURANCE COMPANY,

NEWARK, N. J.

AMZI DODD, - - - - - President.

ASSETS (Market Value) Jan. 1, 1894,	- - - - -	\$53,346,092.82
LIABILITIES, N. Y. and Mass. Standard,	- - - - -	49,742,302.47
SURPLUS,	- - - - -	3,603,790.35
SURPLUS, by former N. Y. Standard (Am. Ex. 4½ per cent. Reserve),	- - - - -	6,385,707.35

Policies Absolutely Non-Forfeitable After Second Year.

In case of lapse the Policy is continued in force as long as its value will pay for; or, if preferred, a Paid-up Policy for its full value is issued in exchange.

After the second year, Policies are *Incontestable*, and all restrictions as to residence, travel or occupation are removed.

Cash Loans are made to the extent of 50 per cent of the reserve value, where valid assignments of the Policies can be made as collateral security.

Losses paid immediately upon completion and approval of proofs.

Western Massachusetts Mutual

FIRE INSURANCE CO.

SPRINGFIELD, MASS.

OFFICERS:

E. MORGAN, President.
GIDEON WELLS, Vice-President.
WILLIAM F. CALLENDER, Treasurer.
WILLIAM G. HALL, Secretary.
CHARLES E. STICKNEY, General Agent

DIRECTORS:

M. V. E. Edgerly, President Massachusetts Mutual Life Insurance Co., Springfield, Mass.
Eliza Morgan, President Morgan Envelope Co., Springfield, Mass.
A. B. Wallace, Forbes & Wallace, Dry Goods, Springfield, Mass.
John Olmsted, President First National Bank, and Springfield St. Railway Co., Springfield, Mass.
W. Murray Crane, Z. & W. M. Crane, Dalton, Mass.
Gideon Wells, Attorney and President Holyoke Water Power Co., Springfield, Mass.
H. S. Hyde, President Agawam National Bank, Springfield, Mass.
H. M. Phillips, State Treasurer, Springfield, Mass.
W. F. Callender, Vice-President Chapin Nat'l Bank, Springfield, Mass.
W. H. Weason, Smith & Weason, Springfield, Mass.
A. A. Packard, Meekins, Packard & Co., Springfield, Mass.
Peter Murray, Smith & Murray, Springfield, Mass.
Charles E. Stickney, Pyncheon & Stickney, Springfield, Mass.
George W. Taylor, Blake & Taylor, Boston, Mass.

MERCANTILE MUTUAL FIRE

INSURANCE Co.

OF PHILADELPHIA, PA.

May 1, 1894.

Amount at risk, - - - - - \$4,028,568.00

ASSETS.

Cash in Banks, premiums due, and all other assets, - - - - - \$307,779.05

OFFICERS.

JOHN T. BAILEY, - - - - - PRESIDENT
JOHN MANEELY, - - - - - VICE-PRESIDENT
FREDERICK A. DOWNES, - - - - - SECRETARY
WILLIAM H. McCALLUM, - - - - - TREASURER

DIRECTORS.

JOHN T. BAILEY, - of John T. Bailey & Co.
JOHN LUCAS, - - - - - of John Lucas & Co.
SIMON MILLER, - - - - - of Jacob Miller Sons & Co.
JOHN MANEELY, - - - - - of Philadelphia, Pa.
E. IRVING SCOTT, - - - - - of Scott Paper Co., Ltd.
JAMES S. BONBRIGHT, of Buehler, Bonbright & Co.
ORLANDO H. SEARLE, of Searle, Vanneman & Co.
WILLIAM H. McCALLUM, of McCallum & McCallum
FREDERICK A. DOWNES, Secretary of the Company

ESTABLISHED 1845.

ESTABLISHED 1845.

ROYAL INSURANCE COMPANY

(FIRE)

OF LIVERPOOL, ENGLAND.

Head Office Metropolitan District. - - 50 Wall Street, New York.

STATEMENT OF THE UNITED STATES BRANCH, JANUARY 1, 1894.

Real Estate.....	\$1,818,200.10
Loans on Bond and Mortgage (first liens).....	109,000.00
U. S. Government Bonds.....	1,061,875.00
R. R. First Mortgage Bonds.....	3,044,170.00
Cash in Banks, Trust Companies and Offices.....	687,005.35
Uncollected Premiums.....	732,613.94
Other Assets.....	26,817.05
Held in the United States for the special protection of its American policy-holders.....	\$7,469,681.44
Unpaid Losses, Unearned Premiums and other Liabilities.....	5,273,839.18
Surplus.....	\$2,195,842.26

COMMITTEE OF MANAGEMENT.

HENRY PARISH,

OSGOOD WELSH,

WM. A. NASH,

FREDERICK D. TAPPEN,

JOHN H. INMAN.

E. F. BEDDALL, Manager.

GEO. M. COIT, Assistant Manager.

THE BROADWAY INSURANCE CO.

OF THE
CITY OF NEW YORK.

OFFICE, NO. 158 BROADWAY.

Losses Paid Promptly.

ASSETS, January 1, 1894.....\$442,252

NET SURPLUS..... 53,242

A share of your business is respectfully
solicited.

E. B. MAGNUS, President.

GEO. W. JONES, Secretary.

The Palatine Insurance Company, Limited

OF MANCHESTER, ENGLAND.

(FOR FIRE INSURANCE).

Assets in U. S., - \$2,255,974.58

Net Surplus, Jan. 1, '94, 507,349.80

WRITING LARGE LINES ON DESIRABLE
BUSINESS.Applications for Agencies or Information should
be sent toWM. BELL & WM. WOOD,
Joint Managers for Eastern and Middle States.WILLIAM M. BALLARD,
Branch Secretary, 152 Broadway, New York.GEORGE M. FISHER,
Manager for Western States, 205 La Salle Street,
Chicago, Ill.FINLEY & JANVIER,
Managers for Southern States, 50 and 52 Camp
Street, New Orleans, La.CHAS. A. LATON,
Manager for Pacific Coast, 439 California Street,
San Francisco, Cal.

MORE THAN TWELVE DOLLARS A MINUTE

on the average, is being paid to the policyholders every minute of every hour of every day of every week, the year through by the

Metropolitan Life Insurance Co.

OF NEW YORK.

This is one of the oldest Life Insurance Companies in the United States.

It has been doing business for more than a quarter of a century.

It has more than Three Million Policies in force on its books.

60,000 families will receive the Proceeds of its Policies this year.

More than 10,000 persons are actively in the service of this Company in the United States.

It is the most progressive Life Insurance Company in America to-day.

Its Great Feature is its Industrial Plan of Life Insurance.

5 CENTS PER WEEK AND UPWARD WILL SECURE A POLICY.

All ages from 2 to 70 taken. All policies in immediate benefit. Claims paid immediately at death. No initiation fee charged. Males and females insured at same cost. Premiums collected by the Company weekly at the homes of policyholders. Only healthy lives are eligible. No uncertain "assessments." No increase of dues.

THINK OF IT! The daily saving of FIVE CENTS will carry policies on the lives of every member of a family of seven persons.

ORDINARY DEPARTMENT.

The Company in this Department issues all the approved forms of Policies and some novel forms of Policies for \$1,000 and upward, premiums payable yearly, half yearly or quarterly. The Policies are liberal in their provisions, contain no restrictions as to travel and residence, provide for immediate payment of claims upon receipt of satisfactory proofs of deaths, and the premium rates are extremely low. We invite comparison of rates with other Companies.

SPECIAL NOTICE. AGENTS WANTED—Agents are wanted by this Company in all the principal cities of the United States and Canada. Splendid opportunities are offered to active, energetic men. Those out of work, or those who are in situations with little or no chance of promotion, should give the business a trial. To the right kind of men it offers steady, permanent and paying positions, with opportunity for merited advancement. If this notice is not applicable to the reader and he has a friend whom he thinks it might interest, will he be kind enough to bring the subject to that friend's attention? For further particulars apply to the Home Office, 1 Madison Avenue, New York.

OFFICERS.

JOHN B. HEGEMAN, President.

HALEY FISKE, Vice-President.

GEORGE H. GASTON, 2d Vice-President

GEORGE B. WOODWARD, Secretary.

JAMES M. CRAIG, Actuary.

J. J. THOMPSON, Cashier and Asst Sec'y.

STEWART L. WOODFORD, Counsel.

THOMAS H. WILLARD, M.D., Medical Examiner.

The Fidelity ^{AND} Casualty Co.

Assets, July, 1894, over \$2,000,000.00.



FIDELITY DEPARTMENT:

Bonds of Suretyship for persons in positions of trust.

CASUALTY DEPARTMENT:

Policies against loss by Personal Accident, Plate Glass Breakage, Steam Boiler Explosion, Burglary, Employers, Landlords, Elevator Owners or Common Carriers legal liability.

OFFICERS.

GEORGE F. SEWARD, President.

ROBERT J. HILLAS, Secretary.

EDW. L. SHAW, Assistant Secretary.

General Offices, Nos. 140 to 146 Broadway, New York City.

1853.

1894.

FORTY-FIRST ANNUAL STATEMENT

OF THE

Agricultural Insurance Co.

OF WATERTOWN, N. Y.

FIRE, LIGHTNING, TORNADO.

Capital, - - - - -	\$ 500,000.00
Assets (to protect policyholders), -	2,312,676.19
Net Surplus to Policyholders, - -	761,199.83
Net Surplus to Stockholders, - - -	261,199.83

J. R. STEBBINS, President.

H. M. STEVENS, Secretary.

Principles and Practice of Life Insurance.

SIXTH EDITION.—REVISED, ENLARGED AND IMPROVED.

A Treatise on the Principles and Practice of Life Insurance.—With valuable Tables for reference. A complete Arithmetical explanation of the computations involved in the science of Life Contingencies.

By NATHAN WILLEY.

This edition contains entirely new descriptive text from that found in the former edition, and for the first time since the work was originally published it has been *carefully rewritten and recompiled, and entirely reset in new type.*

New Tables of Premiums and Annuities have been developed by arithmetical processes.

The Interest Tables have been enlarged and now include 2, 2½, 3 and 3½ per cent valuations, and all the Tables have been extended from 50 to 100 years.

There are also included among the new Tables Values based upon the American Experience Table with interest at 4 per cent; also Values upon the same table with interest at 3½ and at 3 per cent.

These Values have been extended so as to include all the usual forms of Life and Endowment Policies. The Valuation Tables upon the Actuaries Table of Mortality 4 per cent interest, have been enlarged both in respect to Reserves and Cost of Insurance; also the Premiums for Term Insurance, Actuaries 4 per cent, have been extended so as to give from 1 to 15 years inclusive, and they are also given for the 20th and 25th years.

EXTRACT FROM PREFACE TO SIXTH EDITION.

After the Fifth Edition of "The Principles and Practice of Life Insurance" was issued, some errors were discovered in the text, notably in "Life Insurance Formulæ," pages 36 to 51. The publishers, therefore, determined to have the work carefully revised, every table compared with the original tables whence they were derived by Mr. Willey and subsequent compilers, and to this end secured the co-operation of Mr. John Tatlock, Jr., A. M., Member Actuarial Society of America and Assistant Actuary of the Mutual Life Insurance Company of New York. Regarding the work done by him, Mr. Tatlock says:

"I have had all the tables based on the American Table of Mortality, and published in the Fifth Edition of 'The Principles and Practice of Life Insurance,' carefully compared with the manuscript tables belonging to the Mutual Life Insurance Company of New York. I have also had the Interest Tables, published in the above-mentioned edition, carefully compared with Oakes' Interest Tables, and all corrections noted. The Logarithms of V have been independently computed anew."

All values on the Actuaries or Combined Experience Table, with interest at 4 per cent, were recently computed by the Insurance Departments of New York and Massachusetts, and are now for the first time given to the public, in Principles and Practice of Life Insurance.

The work is now issued in three forms, adapted to the various uses of purchasers. An edition designated as the ACTUARIES EDITION, printed on heavy paper, with wide margin for notations, and substantially and elegantly bound, is the only edition containing the 4, 3½ and 3 per cent American Experience Valuation Tables. In other respects the pocket and cloth editions are, so far as contents are concerned, identical with the Actuaries edition.

PRICES.

ACTUARIES EDITION,	\$5.00
(This edition contains the 4, 3½ and 3 per cent Am. Experience Valuation Tables.)	
POCKET EDITION (with flexible leather cover),	2.50
CLOTH EDITION,	2.00

Sent pre-paid on receipt of price.

THE SPECTATOR COMPANY,

95 William Street, New York.

THE PROVIDENT SAVINGS

LIFE ASSURANCE SOCIETY.

HOME OFFICE, 29 BROADWAY, NEW YORK.

SHEPPARD HOMANS, PRESIDENT.

JOSEPH H. PARSONS, VICE-PRESIDENT.

CHARLES E. WILLARD, 2D VICE-PRESIDENT.

WM. E. STEVENS, SECRETARY.

EDWARD O. PARKER, SUPT. AGENCIES.

RENEWABLE TERM INSURANCE A SPECIALTY.

The least expensive, the safest and the fairest contract of life insurance in the market. Good agents wanted in all desirable localities.

Extracts from the Official Report of the Insurance Department of the State of New York, for the year ending December 31, 1893.

	PROVIDENT SAVINGS.	OTHER COMPANIES.
Premium receipts in 1893.....	\$2,077,727.18	\$190,629,111.65
Dividends paid policyholders.....	389,321.56	14,433,854.76
Percentage of dividends to premiums.....	18.74	7.57
Mean amount of insurance in force during 1893.....	79,972,338.00	4,276,355,834.00
Average premium charged to each \$1,000.	25.99	44.58
Which was thus appropriated :		
For dividends.....	4.87	3.38
For death claims and expenses.....	18.53	30.49
For other purposes.....	2.61	10.71
Average premium as above.....	25.99	44.58
Net average cost of insurance, less dividends.....	21.12	41.20

STATUTORY REQUIREMENTS.

SYNOPSIS OF THE STATUTORY REQUIREMENTS OF THE VARIOUS STATES AND TERRITORIES.

A brief synopsis of the statutory requirements of each of the several States and Territories relating to Fire Insurance is presented in the following pages. These have been corrected to April 1, but as some of the State Legislatures were in session at the time this portion of THE YEAR BOOK was put to press, any laws subsequently adopted affecting these requirements will be noted in an addenda. It has been our aim in preparing these synopses of the statutes to secure uniformity for all the States and to give the essential requirements in as brief a space as possible consistent with the statement of the facts. The synopsis for each State was sent to the supervising officer of such State and returned to us with his approval or with such corrections as he deemed essential. We believe that the information given in this condensed form is as correct as it is possible to make it and will be sufficient to indicate to all interested the statutory requirements of the different States and Territories.

ALABAMA.

SUPERVISING OFFICER—JOHN PURIFOY, AUDITOR OF STATE, MONTGOMERY.

Preliminary Documents.—Copy of charter must be filed with the Auditor and a verified statement showing the condition of the company December 31 preceding.

Attorney.—A stipulation must be filed with the Auditor designating a known place of business and an agent or agents residing at such place to accept service of legal process.

Funds.—Every company must possess at least \$100,000 actual cash capital fully paid up, no portion of which shall be represented by stock, notes or loans on the stock of said companies as collateral.

Deposit.—Foreign companies must file with the Auditor a certificate of the proper officer of some State that he holds on deposit in trust for the benefit of all policyholders securities worth \$200,000.

Reinsurance Reserve.—The reinsurance reserve must be equal to fifty per cent of the premiums received on all unexpired risks.

Annual Statements.—Annual statements must be filed with the Auditor on January 10, or within thirty days thereafter, showing the condition of the company December 31 preceding.

Agents.—An agent is defined to be any person "who solicits insurance on behalf of any insurance company not organized under or incorporated by the laws of this State, or who takes or transmits, save for himself, any application for insurance or any policy of insurance to or from such company, or who advertises or otherwise gives notice that he will receive or transmit same, or who shall receive or deliver a policy of insurance of any such company, or who shall examine or accept any risk, or receive or collect or transmit any premium of insurance, or make or forward any diagram of any building or buildings, or do or perform any other act or thing in the making or consummation of any contract for or with any such insurance company other than for himself, or who shall examine into or adjust or aid in adjusting any loss for or on behalf of any such insurance company, whether any of such acts shall be done at the

instance or request or by the employment of any such insurance company or of or by any broker or other person, shall be held to be the agent of the company for which the act is done or the risk is taken." Agents are liable for taxes due from the company and for losses incurred unless they have complied with the law.

Special Policy Conditions.—

Impairment.—Auditor is authorized to make examinations of companies, and when he finds the capital of the company impaired to an amount equal to twenty-five per cent after providing for all liabilities required, to revoke its certificate.

Fees.—Company must pay an annual fee to the Treasurer of \$100, in return for which it will receive a certificate authorizing it to do business.

Licenses.—Agents are required to pay to the Fire Department Association of Mobile the sum of \$200 annually; and in any other incorporated city or town where there is or shall be fire companies, a tax of \$200 must be paid for the benefit of such companies.

Taxes.—The following is the full text of the law approved February 20, 1893: All insurance companies, whether chartered or organized under any of the laws of this State, or of any other State or country, doing business in this State, either as a fire, fire and marine, or inland insurance company, and every life insurance company doing business upon any plan, whether mutual, co-operative, assessment or otherwise, and every accident or guarantee company, and every other style or class of insurance company must, upon filing their annual statement, required by law, pay to the State Treasurer, upon the gross premiums received by them from their business in this State, during the year ending on the 31st day of December next preceding, after deducting returned premiums on canceled policies and losses actually paid during said year in the State, a tax of one per cent, and no credit of any kind shall be allowed or given, either as a reduction of taxes, or of liabilities to any corporation transacting business in this State, for reinsurance made in corporations not authorized to issue policies of insurance in this State. All property, real and personal, belonging to insurance companies doing business in this State, shall be assessed in the counties in which such property is situated for taxation at the same rate as other property. Sub-divisions 2 and 3 of section 454 of the code of 1886, in so far as they relate to the taxation of insurance companies, and all laws in conflict with the provisions of this act, be, and the same are hereby repealed. When the facts can be established before a court of competent jurisdiction, that the license tax or the amount of same has been added to the amount of the premium to be paid on fire or life policies or that the rates of insurance has been raised, thereby imposing the payment of said license tax upon the insured, in evasion of the spirit and purpose contemplated in the act, the company so offending shall forfeit to the State the sum of \$500, to be recovered in the circuit or city court having jurisdiction, on motion of the solicitor after ten days' notice.

Penalties.—Agents doing business for unauthorized companies are liable to a maximum fine of \$1000 or imprisonment, the maximum term being six months.

ARIZONA.

SUPERVISING OFFICER—JAS. A. FLEMING, TERRITORIAL TREASURER, PHOENIX.

Preliminary Documents.—Company must file with the Territorial Treasurer a statement showing its condition, and receive from him a certificate of authority to do business.

Attorney.—Company must file a stipulation authorizing any agent of the company in the Territory to accept service of legal process.

Funds.—No requirement.

Deposit.—None required.

Reinsurance Reserve.—No requirement.

Annual Statements.—Annual statements must be filed with the Territorial Treasurer in the month of March of each year.

Agents.—Agents must obtain from the Territorial Treasurer certificate of authority to do business. Any person in any way acting for or in behalf of an insurance company is deemed to be an agent of such company and subject to the regulations and penalties of the insurance act.

Special Policy Conditions.—No requirements.

Impairment.—No provision.

Fees.—To the Territorial Treasurer: For filing statement, \$5; issuing certificates of authority, \$5; issuing certificates to agents, \$2.

Licenses.—No provision.

Taxes.—Upon filing the annual statement a verified statement must also be submitted showing the total premium receipts collected within the territory for the period lapsing since the filing of the previous statement. Such statement must be published in at least one newspaper within the Territory, thereupon the Treasurer will levy a tax of one and one-half per cent upon such premium receipts, which shall be paid to the Treasurer before certificate of authority can be renewed. This tax to be in lieu of all other taxes or licenses.

Penalties.—Any person violating the provisions of the insurance law shall, upon conviction, be fined in any sum not exceeding \$1000.

ARKANSAS.

SUPERVISING OFFICER—C. B. MILLS, AUDITOR OF STATE, LITTLE ROCK.

Preliminary Documents.—Company must file with the Auditor a certified copy of its charter and a certificate giving the date of its organization and the location of its principal office and a statement showing its condition and business on December 31 preceding. In accordance with the act approved March 6, 1891, every insurance company doing business in the State must give a bond in the sum of \$20,000, with three sureties, two of whom must be residents of the State, conditioned for the prompt payment of all claims arising under the policies issued by them subject to the approval of the Auditor of State. In all actions brought under the policies issued by an admitted company, the bondsmen may be made defendants, and judgments obtained against them may be collected as other judgments are collected.

Attorney.—Company must file stipulation designating the Auditor or some person designated by him, or an agent specified by the company, to accept service of legal process.

Funds.—Company must have a subscribed capital of not less than \$100,000, of which \$50,000 must be paid up in cash.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of all premiums on unexpired fire risks that have less than one year to run, and *pro rata* of all premiums on unexpired risks having more than one year to run; the entire premiums received on unexpired marine and inland risks. When the reinsurance fund thus calculated is less than forty per cent of all premiums received during the year then the whole of the premiums received on unexpired risks shall constitute the reinsurance fund.

Annual Statements.—Annual statements must be filed with the Auditor on January 1, or within sixty days thereafter, showing the condition of the company December 31 preceding.

Agents.—Company is required to certify to the Auditor the names of all agents appointed in the State, and each agent must obtain from the Auditor a certificate of authority showing that the company has complied with the law, and that he is its duly authorized agent.

Special Legislation.—An act passed in 1889 provides, "A fire insurance policy in case of the total loss by fire of property insured shall be held and considered to be a liquidated payment against the company for the full amount of such policy. Provided, that the provisions of this article shall not apply to personal property." An act passed in 1893 provides "That in all actions against insurance companies, if the plaintiff shall suffer nonsuit or if after a verdict for him the judgment be arrested, or if after a judgment for him the same shall be reversed on appeal or writ of error, the plaintiff may commence new action from time to time within one year from nonsuit or reversal of judgment."

Impairment.—The Auditor is authorized to examine companies and may revoke certificates if such examination be not permitted. If upon examination of a company he finds its capital stock impaired twenty per cent he shall require the company to make it good within sixty days, and if this is not done, require the company to cease doing business within the State.

Fees.—For filing charter, \$15; filing annual statement or certificate, \$10; issuing certificate of authority \$2; copies of papers on file, 20 cents per folio; certifying same, \$1; company examinations, actual expenses incurred.

Taxes.—On filing annual statement company must report under oath the entire amount of premiums received in the State during the preceding year, and, deducting therefrom losses and commissions, shall pay into the treasury, on or before March 1, a tax of two and one-half per cent upon such net premiums. This in lieu of all other taxes and municipal licenses.

Penalties.—Company neglecting to file statement forfeits \$100 for each day's neglect. Any person or company doing business without complying with the requirements of the law shall forfeit to the school fund \$500 for each month or fraction thereof during which such illegal business is transacted, and shall be deemed guilty of a misdemeanor, and, upon conviction, a fine not less than \$500 is imposed. An agent making false statements or representations for the purpose of securing business shall be deemed guilty of felony, and on conviction sentenced to the penitentiary not less than three nor more than ten years. Any person acting for a company that has not secured the bond required shall be guilty of a misdemeanor, and is liable to a fine of not less than \$20 or more than \$100.

CALIFORNIA.

SUPERVISING OFFICER, M. D. HIGGINS, INSURANCE COMMISSIONER, SAN FRANCISCO.

Preliminary Documents.—Company must file with the Commissioner a certified copy of its charter and a certificate signed by the proper State officers, showing that it possesses the capital stock or assets required by the State. Also a statement of its affairs December 31 preceding. The general agent must also file with the Insurance Commissioner a bond with the approved sureties in the sum of \$2000, conditioned that the company or its agent will pay to the proper officer quarterly, in advance, such license fee or taxes as shall be imposed by law, and perform all other duties as prescribed by law, and that the company will conform to all provisions of law. All statements, calculations, payments, etc., must be made in gold coin.

Attorney.—Company must appoint an agent in the State to accept service of legal process. Such agent must be the principal agent or manager of the business of the company in the State. In case the company should be without such agent, process may be served upon the Insurance Commissioner.

Funds.—Every stock company must possess an unimpaired capital of not less than \$200,000, and mutual companies must possess available assets over and above liabilities amounting to \$200,000.

Reinsurance Reserve.—The reinsurance reserve is computed at fifty per cent of the premiums on fire and marine risks; the entire premiums on all unexpired marine and inland navigation risks; and ninety-five per cent of premiums on perpetual risks.

Annual Statements.—All fire and marine companies must file with the Commissioner on or before January 15 of each year a statement verified by the oath of the general agent, showing the amount of business done in the State during the year ending December 31 preceding.

Agents.—Every general agent must procure from the Commissioner a certificate of authority.

Special Policy Conditions.—No company is permitted to write on any one risk in excess of one-tenth of its capital actually paid in and intact at the time of taking such risk without reinsuring the excess.

Impairment.—Commissioner is authorized to examine any company whenever he deems it necessary. If a company shall be found to be insolvent the Commissioner must revoke its license and cause notice thereof to be published daily for four weeks in some newspaper published in San Francisco. A company will be declared insolvent when, after providing for all liabilities and the amount required for the reinsurance fund, the capital stock of such company is reduced below \$200,000, or seventy-five per cent of the amount of said capital stock paid in cash. If it be a mutual company it will be declared insolvent if the available cash assets do not exceed its liabilities as aforesaid by \$200,000.

Fees.—Fees payable in United States gold coin. For filing charter, \$30; filing annual statement, \$20; filing any other paper required by law, \$5; copies of papers on file, 20 cents per folio; certifying same, \$1; other fees regulated by reciprocal provision.

Licenses.—The City and County of San Francisco is entitled to collect for licenses as follows: Each agent shall pay for each company represented by him doing business to the amount of \$50,000 or over per quarter, \$100 per quarter; those doing business to the amount

of \$25,000 per quarter and less than \$50,000, \$75 per quarter; those doing business to the amount of \$10,000 and less than \$25,000 per quarter, \$50; for any amount less than \$10,000 per quarter, \$25 per quarter; other licenses regulated by reciprocal provision.

Taxes.—All taxes are regulated by reciprocal provisions.

Penalties.—For failing to file documents prescribed by law, \$100, and \$200 additional for each month company continues to do business while in default. For failure to answer truthfully in writing the written inquiries of the Commissioner, \$500.

CANADA.

SUPERVISING OFFICER, WILLIAM FITZGERALD, SUPERINTENDENT OF INSURANCE,
OTTAWA.

Preliminary Documents.—Company must file with the Superintendent a certified copy of its charter, and a statement showing its condition December 31 preceding, or up to the end of its fiscal year. Duplicates of all documents required to be filed with the Superintendent must be filed in the office of the Superior Court in the province wherein the head office of the company is situated, or, if in the province of Quebec, with the Prothonotary of the Superior Court of the district.

Attorney.—Attorney must be appointed at the head office of chief agency of the company, to accept service of legal process, and to receive from the Minister of Finance and the Superintendent all legal notices.

Deposit.—Fire and inland marine companies are required to deposit with the Minister of Finance \$100,000 for the benefit of policyholders in Canada. Company may make such deposit in United States or other securities approved by the Treasury Board.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of all premiums on unexpired fire risks having one year or less to run; *pro rata* for all premiums on unexpired fire risks having more than one year to run, and the entire premium on unexpired marine risks.

Annual Statements.—Annual statements must be filed with the Minister of Finance on January 1, or within two months thereafter.

Agents.—No provision.

Special Policy Conditions.—No fire insurance policy shall be issued for or extend over a longer period than three years. License of the company is forfeited whenever notice is served on the Minister that the company has failed to pay a disputed claim for sixty days or has failed to pay a final judgment within such time; upon such failure company is deemed insolvent.

Impairment.—No provision.

Fees.—The Superintendent is authorized to assess the companies upon their gross premiums for the sum required for the expenses of his office, but is limited on fire and marine companies to \$3000.

Licenses.—All companies must obtain license to do business from the Superintendent.

Taxes.—No provision.

Penalties.—Company doing business without license or without filing the necessary papers required by law, or neglecting or refusing to file annual statement, subject to a penalty of \$500 and an additional penalty of \$100 for each month's default. Agents doing business for unlicensed companies incur a fine of not more than \$50 and costs for first offense, and imprisonment for second offense.

COLORADO.

SUPERVISING OFFICER, F. M. GOODYKOONTZ, SUPERINTENDENT OF INSURANCE, DENVER.

Preliminary Documents.—Company must file a certified copy of its charter and a statement showing the condition of the company December 31 preceding.

Attorney.—The Superintendent of Insurance must be appointed attorney to accept service of legal process.

Funds.—Company must possess not less than \$200,000 capital.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance reserve must be maintained at fifty per cent of the gross premiums having less than one year to run, and *pro rata* on all unexpired risks having more than one year to run.

Annual Statements.—Annual statements must be filed on or before March 1. A synopsis of such statement to be printed at least four times in a paper of general circulation published at the capital of the State, together with the certificate authorizing the company to do business.

Agents.—Companies must procure from the Superintendent for the use of agents, copies of the certificate issued to the company authorizing it to do business.

Special Policy Provisions.—Policy must contain a provision for its cancellation, at the request of the insured, and that the unearned premium will be returned on the surrender of the policy, and the company is prohibited from retaining more than the earned premium as per short rate table.

Impairment.—No provision.

Fees.—For filing charter, \$25 ; if the capital of the company exceeds \$250,000, ten cents for each additional \$1000 ; filing power of attorney and preliminary statement, \$50 ; issuing certificate of authority, \$5 ; copies of same, \$2 each ; copies of papers on file, 20 cents per folio ; certifying same, \$1 ; for copy of process, \$2. In case the fees do not equal the expenses of the Superintendent's office, he is authorized to assess the companies for any deficiency.

Licenses.—No provisions. For issuing licenses to agents, \$2 each.

Taxes.—A tax of two per cent on the excess of premiums over losses and expenses in the State is imposed.

Penalties.—For failure to pay fees, revocation of license ; for refusal to answer questions in examinations or making false answers or false entries in books, fine or imprisonment or both. Agent acting for an unauthorized company liable to a penalty of \$500 and six months in jail or both for each offense.

CONNECTICUT.

SUPERVISING OFFICER, BURTON MANSFIELD, INSURANCE COMMISSIONER, HARTFORD.

Preliminary Documents.—Company must deposit with the Commissioner a certified copy of its charter and a verified statement showing the condition and affairs of the company.

Attorney.—Company must appoint the Insurance Commissioner its attorney to accept service of legal process.

Funds.—Every stock company must possess cash capital of \$150,000, paid up and securely invested. Mutual companies must possess \$150,000 in cash, or invested in available securities.

Deposit.—Foreign country companies must possess capital of not less than \$200,000 (as much more as the State where company is organized requires of Connecticut companies), and must deposit with the Treasurer of the State, or with the proper officer of some other State, not less than \$200,000 in securities authorized by law for investments by savings banks, to be held in trust for the benefit of all its policyholders in the United States.

Reinsurance Reserve.—The reinsurance reserve must be maintained at fifty per cent of the gross premiums less return premiums and reinsurance received on all yearly or shorter fire risks in force. Risks written for longer terms than one year, *pro rata*. On perpetual risks 95 per cent of the premiums must be maintained, and on ocean and marine risks in force the full amount of the premium must be maintained as reserve, except on time hull risks, which may be computed at fifty per cent of the amount of premiums received on risks in force.

Annual Statements.—Annual statements must be filed in the month of January, showing the condition of the company on December 31 preceding.

Agents.—Agents must procure a certificate of authority from the Commissioner, renewable April 1 of each year ; prohibited from advertising any but actual assets available to pay losses.

Special Policy Conditions.—All conditions of the contract must be stated in the policy. Risks upon a single hazard limited to an amount not exceeding 10 per cent of the paid-up capital of the company. The legislature of 1893 provided for a standard form of fire insurance policy, similar to the form used in New York, New Jersey and Pennsylvania. This law took effect January 1, 1894.

Impairment.—A fire or marine company is regarded as being unsound when its assets, less

its reinsurance fund and other liabilities (except capital), amount to less than three-fourths of its capital stock. A mutual fire or marine insurance company is regarded as unsound when its assets, less its liabilities, including unsettled claims, are less than three-fourths of the sum required for reinsurance.

Fees.—For issuing license to company, not less than \$10; to foreign country companies, \$50; filing charter, foreign country companies, \$30; filing statement, foreign country companies, \$20; companies of other States not less than \$10; issuing agent's certificates, not less than \$2; other fees regulated by reciprocal provisions.

Licenses.—See Fees.

Taxes.—Agents are required to make a return to the Commissioner on or before January 20 of each year of the gross premiums collected during the preceding year. Companies are also required to make return of gross premiums collected the preceding year, and pay taxes thereon in accordance with the provisions of the reciprocal law on or before January 30.

Penalties.—Agents or companies doing business in violation of the law are subject to a penalty of not less than \$100 nor more than \$1000 for each offense. Agents doing business for unauthorized companies personally liable for all contracts made by them. Companies prohibited from advertising or representing any funds or assets to be in its possession unless actually possessed by it, or subscribed capital not actually paid up in cash, and all advertisements or statements of the financial condition of the company must correspond with the last verified statement to the Insurance Department, and every violation of this provision is punishable for the first offense by a fine of \$500, and every successive offense, \$1000.

DELAWARE.

SUPERVISING OFFICER, PETER K. MEREDITH, INSURANCE COMMISSIONER, GEORGETOWN.

Preliminary Documents.—Company must file with the Commissioner a certified copy of its charter and a verified statement showing its condition.

Attorney.—A resident of the State must be appointed an attorney to accept service of legal process.

Funds.—Stock companies must possess \$150 over and above all liabilities. Mutual companies must have securities to the amount of \$20,000 and at least 100 bona fide applications for insurance, and authorized to transact business in the State wherein it is incorporated.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed on or before February 1 showing the condition of the company December 31 preceding.

Agents.—Agents must procure license from the Insurance Commissioner.

Special Legislation.—Valued policy law in force.

Impairment.—If upon examination the capital stock of a company shall be found to be impaired to the amount of 20 per cent, the Commissioner must notify it to make good the impairment within sixty days. If this is not done he will cause the company to cease doing business in the State.

Fees.—For filing charter, \$10; annual statement, \$10; issuing certificate of authority, \$2; copies of papers on file, 20 cents per folio; certifying same, \$1; examination of companies, actual expenses incurred.

Licenses.—Agents required to pay a yearly license of \$25, and in addition to obtain a license from Insurance Commissioner, the fee for which is 50 cents. For each certificate that company is entitled to do business in the State a fee of \$2 is charged.

Taxes.—Companies are required to pay a tax of one and one-half per cent on gross premiums collected.

Penalties.—Any person violating the law relating to insurance is liable to a fine not exceeding \$1000, or imprisonment not exceeding one year, or both. Agents neglecting to take out a license subject to a fine not exceeding \$500, or imprisonment not exceeding thirty days, or both.

DISTRICT OF COLUMBIA.

SUPERVISING OFFICERS, THE DISTRICT COMMISSIONERS; MATTHEW TRIMBLE, ASSESSOR,
WASHINGTON.

Preliminary Documents.—Company must file with the Commissioners of the District, within sixty days from January 1, a statement showing its condition December 31 preceding.

Attorney.—Company must appoint a resident of the District its attorney to accept service of legal process.

Funds.—Company must have assets equal to its liabilities, including reinsurance reserve.

Deposit.—None required.

Reinsurance Reserve.—Companies must maintain a reinsurance reserve of 50 per cent of premiums received upon one year risks, and an amount proportionate to the unexpired time on all other fire risks. On inland or marine business the reserve must be maintained at a sum equal to the total premiums upon all unexpired inland and marine risks.

Annual Statements.—Annual statements must be filed with the Commissioner of the District on or before March 1, showing the condition of the company December 31 preceding. Semi-annual statements must be printed in March and September in two newspapers published in the District, showing the condition of the company at the end of the preceding six months.

Agents.—No requirements.

Special Policy Conditions.—Policies must have a copy of the application attached to them.

Impairment.—No requirement.

Fees.—No requirement.

Licenses.—Company must pay 50 cents for each \$1000 of capital. Agents must pay \$15 per annum for each company represented.

Taxes.—One per cent on gross receipts in the District, to be paid by agent in January and July.

Penalties.—Any company or agent doing business without authority subject to a penalty of \$100 for every offense. License to be revoked for failure to print semi-annual statements.

FLORIDA.

SUPERVISING OFFICER, C. B. COLLINS, STATE TREASURER, TALLAHASSEE.

Preliminary Documents.—Company must file with the State Treasurer a copy of its charter and a verified statement showing the financial condition of the company.

Attorney.—Company must agree that service of legal process upon an agent in the State shall be binding.

Funds.—Company must possess at least \$150,000 invested in United States or State bonds, or other bankable interest-bearing stocks of the United States.

Deposit.—None required.

Reinsurance Reserve.—No requirement.

Annual Statements.—Annual statements must be filed in the month of January, showing the condition of the company December 31 preceding.

Special Policy Conditions.—No requirement.

Impairment.—When, upon examination, a company is found to be, in the estimation of the Board of Insurance Commissioners, in an unsound condition, its certificate of authority will be revoked and the fact published in some newspaper published at the capital of the State.

Fees.—For filing annual statement, \$5.

Licenses.—Each company must pay an annual license tax of \$200 on the first of October in each year. Agents must pay a license tax of \$10 in each county in which they do business to the tax collectors of such counties; for which license agents may represent one or more companies.

Taxes.—From January 1, 1894, each company must pay an annual tax of one per cent on gross premiums.

Penalties.—A company making false return or statement willfully is subject to a fine of not less than \$500 nor more than \$5000. For any violation of the law relating to insurance a fine not exceeding \$1000, or imprisonment not more than six months, is provided.

GEORGIA.

SUPERVISING OFFICER, W. A. WRIGHT, INSURANCE COMMISSIONER, ATLANTA.

Preliminary Documents.—Company must file with the Insurance Commissioner a certified copy of its charter and a verified statement showing its financial condition on December 31 preceding.

Attorney.—Must appoint a resident of the State to accept service of legal process.

Funds.—Company must possess at least \$100,000, invested in bonds and stocks estimated at their market value, or in mortgages on real estate worth double the amount for which mortgage is given.

Deposit.—Company must deposit with the Treasurer \$25,000 in United States or State bonds before receiving license to do business.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of premiums on all policies having less than one year to run, and *pro rata* on all others.

Annual Statements.—Annual statements must be made to the Insurance Commissioner on January 1 or within 60 days thereafter. Semi-annual statements showing the condition of the company June 30 and December 31 must be filed July 1 and January 1, or within 60 days thereafter, with the Governor of the State. Duplicates of semi-annual statements must be published in some newspaper printed in the town or city wherein the agent making the report is located.

Agents.—Agents must procure a license to do business, and also a certificate of authority, showing that the company is authorized to do business in the State. Certificates and licenses renewable annually.

Special Legislation.—No requirement. Anti-compact law adopted October, 1891.

Impairment.—If a company is found to be impaired in its capital to exceed 20 per cent, its license will be revoked.

Fees.—For filing charter or certificate and each duplicate thereof, \$20; filing annual statement, \$20; issuing certificates to agents, \$3; other fees regulated by reciprocal provision.

Licenses.—Company and agent must obtain license from the Insurance Commissioner before doing business; to be renewed annually.

Taxes.—Companies must make a verified statement to the Insurance Commissioner showing the total amount of premiums received in the State by agencies for the year ending April 30, and must pay on or before July 1 a tax of one per cent thereon. Agents must also pay a tax of \$10 in each county in which they do business. Special, general and traveling agents required to pay a special tax of \$50 for the entire State. Agents representing foreign companies must make similar returns to the Insurance Commissioner.

Penalties.—For any violation of the provisions of the law relating to insurance a fine of not less than \$100 nor more than \$1000 is provided. For default in payment of taxes a fine of \$500. Companies are prohibited from becoming members of or maintaining membership in any pool, combination or association which tends to defeat competition, under penalty of a revocation of their licenses. Individuals doing fire business are subject to above requirements.

IDAHO.

SUPERVISING OFFICER, WILLIAM C. HILL, STATE TREASURER, BOISE CITY.

Preliminary Documents.—Company must file a statement showing the name and locality of the company, amount of capital stock, amount paid up, amount of assets and liabilities, net surplus, and receipts and expenditures during the preceding year.

Attorney.—An agent or attorney resident of the State must be appointed to accept service of legal process.

Funds.—Company must be possessed of an actual paid-up capital of not less than \$100,000.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statement must be filed with the State Treasurer in April, showing the condition of the company December 31 preceding.

Agents.—Each agent is required to obtain a certificate to do business from the Treasurer, renewable annually in April.

Special Policy Conditions.—In the event of the destruction of any insured property on which the amount of the appraised or agreed loss shall be less than the total amount insured thereon, company must return to the insured the insurance premium for the extra insurance over the appraised or agreed loss; to be paid at the same time and in the same manner as the loss is paid.

Impairment.—Upon the written representation of three citizens, or upon the belief of the Treasurer that a company has less than \$100,000 paid-up unimpaired cash capital, the Treasurer is empowered to make an examination, and, if any impairment is found, to notify the company to make good the amount within sixty days or produce a certificate of the proper officer of some other State that its capital is unimpaired, and unless such certificate is produced within sixty days he shall withdraw its certificate to do business in the State.

Fees.—For filing statement, \$1; issuing certificates, \$2.

Licenses.—Company must pay to the Treasurer a license fee of \$50 on filing its first statement, and annually thereafter on filing its annual statement in April.

Taxes.—No provision.

Penalties.—For transacting business without certificate, or after certificate shall have been withdrawn, the offender is deemed guilty of a misdemeanor and subject to a fine not exceeding \$100, or imprisonment in the county jail not exceeding six months, or both fine and imprisonment.

ILLINOIS.

SUPERVISING OFFICER, B. K. DURFEE, INSURANCE SUPERINTENDENT, SPRINGFIELD.

Preliminary Documents.—Company must make a written application for license under its corporate seal, accompanied by a declaration that it will accept such license according to the laws of the State, and that such license shall terminate in case it shall remove or make application to remove any suit commenced against it in a State court to a United States court. It also must file a copy of its charter and a verified statement of its financial condition, together with a copy of its last annual report.

Attorney.—A resident of the State must be appointed an attorney to accept service of legal process.

Funds.—Stock companies must possess paid-up cash capital of not less than \$100,000, properly invested. Special deposits made in any State by foreign companies are not to be counted among the assets of the company.

Deposit.—Foreign companies must file certificate showing that it has on deposit with the proper officer of some State securities to the amount of \$200,000 for the protection of all policyholders in the United States.

Reinsurance Reserve.—The reinsurance reserve must be maintained at fifty per cent of the gross premiums on all outstanding policies. Companies prohibited from assuming any one risk greater than ten per cent of its paid-up capital.

Annual Statements.—Annual statements must be filed within thirty days from January 1, showing the condition of the company December 31 preceding. Such annual statements to be published in two daily papers of general circulation not less than fifteen days, one of which papers must be published in Chicago and the other in Springfield.

Agents.—Agents must procure from the Auditor a certificate of authority showing that the company has complied with the requirements of the law. In all advertisements agents must state the location of the company and the government under the laws of which it is organized. All advertisements, signs, circulars or cards issued by the company or its agents must state the amount of capital actually paid in cash, the net surplus, as allowed by the Auditor of Illinois, over liabilities, and its condition as shown by its last preceding statement to the Insurance Department, and are prohibited from claiming any funds or assets not actually possessed by the company. Companies are prohibited from writing on Illinois property except through authorized agents.

Special Policy Conditions.—No provision.

Impairment.—If upon examination the Auditor shall deem a company to be unsound, he will revoke all certificates granted in its behalf, and cause a notice of such revocation to be

published in a paper published in the city of Springfield. Company prohibited from doing business in the State if its capital is impaired to the extent of twenty per cent.

Fees.—For filing certified copy of charter, \$30; filing annual statement, \$10; issuing agent's certificate of authority, \$2; copies of papers on file, twenty cents per folio; certifying same, \$1; examinations, actual expenses incurred. Other fees governed by reciprocal provision.

Licenses.—See Agents.

Taxes.—Every agent must, during the month of May, submit an annual return to the proper officer of the county, town or municipality in which his office is located, showing his net receipts as such agent for the preceding year. The amount so stated to be entered upon the tax list and subject to the same rate of taxation as personal property is subject to at the place where the agency is located. Such tax in lieu of all town or municipal licenses, except in cities where an organized fire department is maintained. Such cities may levy an additional tax not exceeding two per cent upon the gross premium receipts of the company in such city, to be applied to the support of the fire department. Other taxes governed by reciprocal provision.

Penalties.—For failure to file statement as required or to answer inquiries made by the Auditor, a penalty of \$500 is provided, and an additional penalty of \$500 for every month of such default. Violation of any of the provisions of the law relating to insurance subjects the offender to a penalty of \$500 for each offense. For writing insurance except through authorized agents, license to be revoked for ninety days, and not permitted to do business until all taxes and penalties have been paid.

INDIANA.

SUPERVISING OFFICER, J. O. HENDERSON, AUDITOR OF STATE, INDIANAPOLIS.

Preliminary Documents.—Company must file certified copy of its charter and a verified statement showing its financial condition.

Attorney.—Company must designate an agent to accept service of legal process. In the absence of such attorney service upon the Auditor shall be valid.

Funds.—Companies must possess at least \$200,000 actual capital, invested in United States or State stock or bonds, secured by mortgage on unencumbered real estate worth double the amount of the mortgage.

Deposit.—None required.

Reinsurance Reserve.—No special provision.

Annual Statements.—Annual statements must be filed semi-annually with the Auditor in January and July, copies of such statements to be published in two leading daily newspapers in the State.

Agents.—Agents must procure from the Auditor a certificate of authority, to be renewed semi-annually upon the filing of the semi-annual statement. A certificate so obtained, together with a certified copy of the company's statement, must be filed with the clerk of the Circuit Court of the county in which such agency is established. In case of loss under any policy issued in the State the agent who places the insurance is required to retain in his hands all moneys which he may then have or which may thereafter come into his possession belonging to such company until such loss is paid. The insured who has sustained a loss may notify other agents of such company, and they are required to retain in like manner all the money in their hands belonging to the company. When suit is begun against a company the agent may deposit in court a sum equal to double the amount named in the policy to abide the event of the suit. If, however, the insured shall not commence suit against the company within ninety days after the agent shall have notified him that the loss would not be paid, the agent may then pay to the company all moneys in his possession belonging to it. It is unlawful for companies admitted to do business in the State to place insurance on property in the State in offices outside the State.

Special Policy Conditions.—Companies are prohibited from inserting any condition in any policy issued by it requiring the insured to give immediate notice, or within a period of less than five days, of the loss of the insured property; nor shall any condition be inserted in the

policy requiring the insured to procure the certificate of the nearest justice of the peace, mayor, judge, clergyman or other official person of such loss or the amount thereof. Any condition or agreement that the insured shall not sue to recover for losses under the policy for a period of less than three years shall not be valid.

Impairment.—No provision.

Fees.—For examination of statements and evidences of investment, \$5; accepting service as an attorney, \$3; filing copy of the same, \$5; issuing certificate of authority, \$2; to clerk of court for filing certificate and statement, fifty cents; examination of companies, actual expenses incurred. Other fees regulated by reciprocal provision.

Licenses.—See Agents.

Taxes.—Company required to report to the Auditor in the months of January and July of each year the gross amount of premiums collected in the State for the six months ending December 31 and June 30, and shall pay a tax to the State Treasurer of \$3 for every \$100 of premiums collected, less losses actually paid in the State.

Penalties.—Any person violating the law relating to insurance is liable to a fine not exceeding \$1000, or imprisonment in the county jail of not more than thirty days, or both. Company neglecting to report its premiums and pay taxes thereon to forfeit \$100 for each day that it remains in default. For writing policies in offices outside the State, license to be revoked for ninety days, and not permitted to do business again till all taxes, penalties and costs have been paid.

IOWA.

SUPERVISING OFFICER, C. G. MCCARTHY, AUDITOR OF STATE, DES MOINES.

Preliminary Documents.—Company must file copy of its charter and a verified statement showing its financial condition and a copy of its last annual report.

Attorney.—Company must file an agreement authorizing any of its agents to accept service of legal process.

Funds.—Stock company must possess actual cash capital of \$200,000. Deposits made in other States for the exclusive benefit of the policyholders within such States not to be included. Mutual companies are required to have \$200,000 over and above all liabilities.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance fund must be maintained at forty per cent of the premiums received on all unexpired risks. Company is prohibited from writing upon one risk an amount exceeding ten per cent of its paid-up capital, unless the excess shall be reinsured in some other trustworthy company.

Annual Statements.—Annual statements must be filed within thirty days from January 1, showing the condition of the company on December 31 preceding.

Agents.—Agents must procure from the Auditor annually a certificate of authority authorizing them to do business. In all advertisements the agents must publish the location of the company and the government under whose laws it is organized.

Special Policy Conditions.—Company must submit the form of its policy contracts to the Auditor, who shall see that they provide equitable terms for their cancellation. Policies must have attached to them or endorsed upon them a true copy of any application or representation of the insured, which are made a part of the contract or referred to in it, or which may in any manner affect its validity. Neglect to comply with this requirement will not render the policy invalid, but precludes the company from pleading or proving such representations. The sum named in the policy should be received as *prima facie* evidence of the insurable value of the property at the date of the policy.

Impairment.—If the capital of the company is impaired to the extent of twenty per cent the Auditor will revoke its certificate to do business and cause notice of such revocation to be published in some newspaper published in the city of Des Moines. Auditor authorized to make examinations.

Fees.—Filing copy of charter, \$25; annual statement, \$20; issuing certificates of authority and copies thereof, \$2; copies of papers on file, 20 cents per folio; certification of same, \$1; examinations of companies, actual expenses incurred. Other fees regulated by reciprocal provisions.

Licenses.—On procuring its license or certificate from the Auditor company is required to publish the same annually in two newspapers of general circulation, one of which is published at the capital.

Taxes.—At the time of filing the annual statement company is required to pay a tax of two and one-half per cent into the State treasury upon the gross amount of premiums received in the State during the preceding year. Such tax to be in lieu of all other State and local taxes. A duplicate receipt for the payment of this tax must be filed with the Auditor.

Penalties.—For doing business for an unauthorized company, or for violating any provision of the insurance law, a fine not exceeding \$1000 and imprisonment in the county jail for a period of not less than thirty days nor more than six months, is provided.

KANSAS.

SUPERVISING OFFICER, S. H. SNIDER, SUPERINTENDENT OF INSURANCE, TOPEKA.

Preliminary Documents.—Company must file with the Superintendent a copy of its charter, a copy of its last annual report, and a statement showing the financial condition of the company.

Attorney.—Company must file a stipulation appointing the Superintendent of Insurance attorney to accept service of legal process.

Funds.—Company must possess paid-up capital of \$100,000 properly invested.

Deposit.—Foreign countries must have invested in the stocks of the United States or of some one or more of the States the sum of \$100,000 to be held by citizens of the United States or in trust for the benefit of all policyholders.

Reinsurance Reserve.—The reinsurance fund must be maintained at forty per cent of the amount received for premiums or unexpired risks.

Annual Statements.—Annual statements must be filed on or before March 1, showing the condition of the company on December 31 preceding. A synopsis of the annual statement must be published in each county where the company has an agent.

Agents.—Agents must obtain a license from the Superintendent, which must be renewed annually on or before March 1. Companies must furnish the Superintendent with the names of agents appointed by it.

Special Legislation.—Anti-compact law adopted 1889. Company is prohibited from taking risks on property located in the State except through resident agents properly licensed. Valued policy law adopted March, 1893.

Impairment.—Company cannot transact business in the State if its capital stock is impaired to the extent of twenty per cent.

Fees.—For filing charter, \$55; for filing annual statement, \$50; school fund, \$50; issuing license to agents, \$2; copies of papers on file, 20 cents per folio; certifying same, \$1; examination of companies, actual expenses incurred. If the expenses of the department exceed the receipts from fees the deficiency to be assessed upon all companies doing business in the State. In addition the company is required to pay into the State treasury for the benefit of the school fund, \$50 annually. Other fees regulated by reciprocal provisions.

Licenses.—See Agents.

Taxes.—Foreign companies required to pay a tax of two per cent on or before March 1, on premiums received in the State during the preceding year. Taxes on companies of other States regulated by reciprocal provisions.

Penalties.—Company or agent doing business without a license subject to a fine of \$500 for each offense. Company doing business through other than resident agents forfeits its license. Agent of company entering into a combination to control rates subject to a fine or imprisonment.

KENTUCKY.

SUPERVISING OFFICER, H. F. DUNCAN, INSURANCE COMMISSIONER, FRANKFORT.

Preliminary Documents.—Company must file a certified copy of its charter and a statement showing its financial condition on December 31 preceding. Every corporation doing business in this State shall, in a conspicuous place, on its principal place or places of business, in

letters sufficiently large to be easily read, have painted or printed the corporate name of such corporation, and immediately under the same, in like manner, shall be printed or painted the word "incorporated." Every insurance corporation, foreign or domestic, shall conduct its business in this State in its own proper and corporate name, and the policies and contracts of insurance issued by it shall be headed or entitled only by its proper or corporate name. When any such company publishes its assets it shall, in the same connection and with equal conspicuousness, publish its liabilities, computed on the basis allowed for its annual statements, and publication purporting to show its capital shall exhibit only the amount of such capital as has been actually paid in in cash. Such publication shall be held to include all policies, renewals, signs, circulars, cards or other means by which public announcements are made.

Attorney.—Company must stipulate that the Insurance Commissioner or any agent is authorized to accept service of legal process.

Funds—Company must possess a paid-up cash capital of not less than \$150,000.

Deposit.—Foreign companies must have on deposit with the chief financial officer of some State a deposit of \$200,000, to be held in trust by him for the benefit of all policyholders of the company in the United States.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of the gross premiums received and receivable upon all unexpired risks.

Annual Statements.—Annual statements must be filed within one month from January 10, showing the condition of the company on December 31 preceding. Commissioner is empowered to extend the time for cause.

Agents.—Agents must procure from the Commissioner a license to do business, which must be renewed annually. All advertisements published by the agent must state the location of the company and the government under whose laws it is licensed. Special licenses issued to agents to do business for unauthorized companies.

Special Policy Conditions.—No provision.

Impairment.—Company is prohibited from doing business if its capital is impaired to the extent of twenty per cent, unless such impairment shall be made good within sixty days. Schedules of reinsurances are required, and no credit is given for reinsurances in unauthorized companies.

Fees.—For filing certified copy of charter, \$30; filing annual statement, \$25; filing any additional statement, \$25; for copies of papers on file, 20 cents per folio; certifying same, \$1; issuing license to agents, \$3; examinations of companies, actual expenses incurred. If the fees provided do not cover the expenses of the office, the Commissioner is authorized to assess for the deficit upon all companies doing business in the State. Other fees regulated by reciprocal provisions.

Licenses.—See Agents.

Taxes.—On the last day of June in each year company must report the total amount of premiums received in the State, and shall pay into the treasury a tax of \$2 upon every \$100 of premiums, less returned premiums and reinsurance in authorized companies. In addition, Louisville is permitted to charge two and one-half per cent on business done in that city.

Penalties.—Agents transacting business without license subject to a fine of \$50 for each offense, with imprisonment if not paid. Agent doing business for a company after its certificate of authority shall have been revoked is liable to a penalty not less than \$50 nor more than \$100 and imprisonment of not less than thirty nor more than fifty days. Company neglecting to make its returns and pay taxes incurs a penalty of \$100. Company removing a suit against it from the State to the Federal court forfeits its license to do business.

LOUISIANA.

SUPERVISING OFFICER, WALKER B. SPENCER, ASSISTANT SECRETARY OF STATE,
NEW ORLEANS.

Preliminary Documents.—Company must file a copy of its charter and a certificate of the Insurance Commissioner of its home State showing that it is entitled to do business; also a verified copy of its last annual statement. Company of a foreign country must file a certificate that it has a deposit, for the protection of policyholders in the United States, with the proper

officer of some other State. If such company is not doing business in another State it must then deposit \$25,000 with the State Treasurer in United States or State bonds; must also file a copy of their charter, officially verified, and a certified copy of a statement of their affairs, a certified copy of the vote or resolution by which their agent or agents were appointed in the United States and this State, together with a certified copy of the trust deed or instrument under which they are to act, defining their powers, and if the agent or agents' appointment in the State is derived from the general agent for the United States, said agent or agents shall be authorized to accept service of legal process.

Attorney.—Company must appoint an agent to accept service of legal process, and issue a power of attorney to some resident of this State to accept service of legal process.

Funds.—No provision.

Deposit.—Foreign companies must deposit \$25,000 with the Treasurer of the State, or furnish a certificate that it has a deposit in some other State, for the protection of all policyholders in the United States. Company is not permitted to take credit in its statements or advertisements for any assets but those in the hands of American trustees or deposited for the benefit of policyholders within the United States.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed prior to March 1, setting forth the condition of the business on December 31 preceding. Such statement must be published for one month in two newspapers in the parish wherein the agent is located. This advertisement to include Louisiana business only.

Agents.—Agents must procure a license to do business in the State, and must post such license in conspicuous places in their offices. Agents, except those of local companies, must have certificates of authority.

Special Policy Conditions.—No requirement.

Impairment.—No provision.

Fees.—For issuing certificate of authority on admission to do business in State, \$25; filing annual statement, \$15; issuing certificate to agents, \$2; changing power of attorney and certifying same, \$3.

Licenses.—But one State license is required. The basis of license for companies entering the State between January and July is computed upon the premiums received during the first two months multiplied by six; all companies entering after July 1 pay a half-yearly license. Every municipal corporation in the State where an agent is domiciled has the right to demand the same amount of license as the State. New Orleans is the only city that demands it. The license fees are as follows: For first class, where premiums exceed \$300,000, the fee is \$1750; second class, premiums exceeding \$250,000, the fee is \$1500; third class, where premiums exceed \$200,000, the fee is \$1250; fourth class, where the premiums exceed \$150,000, the fee is \$1000; fifth class, where the premiums exceed \$100,000, the fee is \$750; sixth class, where the premiums exceed \$80,000, the fee is \$700; seventh class, where the premiums exceed \$70,000, the fee is \$650; eighth class, where the premiums exceed \$60,000, the fee is \$600; ninth class, where the premiums exceed \$50,000, the fee is \$550; tenth class, where the premiums exceed \$40,000, the fee is \$500; eleventh class, where the premiums exceed \$30,000, the fee is \$450; twelfth class, where the premiums exceed \$20,000, the fee is \$400; thirteenth class, where the premiums exceed \$10,000, \$350; where the premiums are \$10,000 or less, \$300. These fees are paid to the tax collectors, who begin collecting on January 2 each year, and are delinquent on and after March 1.

Taxes.—No provision. [The statute provides a tax of six mills on the dollar of capital, but the Supreme Court has decided the law to be unconstitutional.]

Penalties.—In case license is not paid by March 1, a penalty of ten per cent is imposed, d two per cent per month till paid.

MAINE.

SUPERVISING OFFICER, S. W. CARR, INSURANCE COMMISSIONER, AUGUSTA.

Preliminary Documents.—Company must file certified copy of its charter and a verified statement, showing its financial condition.

Attorney.—Service of legal process may be made upon any authorized agent of the com-

pany, and if no such agent can be found, the service may be made on the Insurance Commissioner and shall be valid.

Funds.—Stock companies must possess paid-up capital of at least \$200,000 properly invested. Mutual companies must possess assets of like amount.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of all premiums on fire and inland risks and the entire premium on outstanding marine risks.

Annual Statements.—Annual statements must be filed on or before January 31, showing the condition of the company on December 31 preceding. Abstract of such annual statements must be published three weeks successively in a daily or weekly paper printed in each county where the company has an authorized agent.

Agents.—Company must file with the Commissioner a certificate of authority for each agent, and thereupon the Commissioner may issue a license, good until July 1, to be renewed in like manner annually. Special licenses may be granted to agents to place risks in unauthorized companies having a capital of \$100,000 on filing of bond that they will comply with the law and pay taxes as required.

Special Policy Conditions.—Where an agent has personal knowledge in reference to risks and is, in consequence, aware of any omissions or misdescriptions in the application, his knowledge is regarded as knowledge of the company, and the policy conditions applicable to such omissions or misdirections are regarded as waived, the same as if noted upon the policy.

Impairment.—If upon examination the Commissioner shall ascertain that the assets of a company do not equal more than three-fourths of its capital stock, he shall require it to make good the impairment, and, upon failure to do so within three months after notice, the Commissioner will revoke its license to do business in the State.

Fees.—For issuing licenses to agents, \$2; examinations of companies, actual expenses incurred.

Licenses.—For issuing license to company, \$20; licenses to be renewed on July 1 of each year.

Taxes.—Company must make a return to the Insurance Commissioner on or before January 31 of the amount of premiums received in the State during the preceding year, and, after deducting losses and returned premiums, shall pay a tax of two per cent upon the remainder on or before May 1.

Penalties.—Agents acting for a company before procuring a license subject to a penalty of not more than \$50 for each offense. Company or agent doing business after license has been revoked, incurs a fine not exceeding \$200.

MARYLAND.

SUPERVISING OFFICER, I. FREEMAN RASIN, INSURANCE COMMISSIONER, BALTIMORE.

Preliminary Documents.—Company must file certified copy of its charter and a certificate from the proper official of the State or government where the company was organized showing that it is authorized to do an insurance business; also a verified statement showing the financial condition of the company.

Attorney.—Company must specify an agent to accept service of legal process. Should the company discontinue its agency, process may be served on the Commissioner.

Funds.—Stock companies must possess at least \$100,000 capital.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of the premiums on unexpired fire risks having less than one year to run, and a *pro rata* amount of premiums received on risks having one year or longer to run; all the premiums received on unexpired marine and inland risks for less than one year and sixty per cent of such of the premiums upon yearly risks and upon risks covering more than one passage not terminated.

Annual Statements.—Annual statements must be filed within sixty days from January 1 showing the condition of the company December 31 preceding. Abstract of such statement to be published by the Commissioner once a week for three successive weeks in a newspaper published in Baltimore; also in each county where it does business. Company must publish in some other paper such abstract three consecutive times prior to March 1.

Agents.—Company must file with the Commissioner a list of its authorized agents, and agents so appointed must obtain from the Commissioner a certificate of authority or license. All such certificates or licenses renewable January 1.

Special Policy Conditions.—No provision.

Impairment.—When the Commissioner becomes satisfied by examination or inquiry that the capital of a company is impaired to the extent of twenty-five per cent, he shall require that it be made good within sixty days, and if this be not done the license of the company to do business in the State will be revoked.

Fees.—For filing certified copy of charter, \$25; filing annual statement, \$25; issuing agents' certificate, \$10; furnishing abstract of annual statement for publication, \$2 and actual net cost of publication; copies of papers on file, 20 cents per folio; certifying same, \$1; examination of companies, actual expenses incurred.

Licenses.—Company required to obtain license to do business from the Commissioner and pay into the State Treasury \$300 annually; proportionately for fractions of a year. Licenses for sub-agents or solicitors, \$10.

Taxes.—Company is required to report to the Commissioner the gross premiums received and the losses paid during the preceding license year, and to pay into the Treasury one and one-half per cent upon premiums. Other taxes, fees, deposits, etc., in accordance with reciprocal provisions.

Penalties.—For violating any of the provisions of the law relating to insurance, the offender is subjected to a fine of not less than \$100 nor more than \$1000.

MASSACHUSETTS.

SUPERVISING OFFICER, GEORGE S. MERRILL, INSURANCE COMMISSIONER, BOSTON.

Preliminary Documents.—Company must file with the Commissioner a certified copy of its charter and a verified copy of its annual statement.

Attorney.—Company must appoint the Insurance Commissioner its attorney to accept service of legal process.

Funds.—Stock companies must possess a paid-up capital of not less than \$200,000. Mutual companies must possess available funds above all liabilities equal to fifty per cent of all premiums received in cash on policies in force, and have a net surplus of not less than \$200,000.

Deposit.—Companies of foreign countries must have on deposit with the proper officer of some State \$200,000 for the security of policyholders in the United States. Marine companies must deposit \$300,000.

Reinsurance Reserve.—The reinsurance reserve must be maintained at fifty per cent of the premiums received on fire and inland risks, and the full amount of premiums on marine risks except yearly risks, upon which sixty per cent must be maintained.

Annual Statements.—Annual statements must be filed on or before January 15, showing the condition of the company December 31 preceding. Commissioner is authorized to extend the time for filing statement for cause to February 15.

Agents.—Agents must procure a certificate of authority from the Commissioner authorizing them to do business; such certificates renewable April 1 each year. Agent must display in conspicuous letters on his business sign the name of the State or county under which the company he represents was incorporated. He must also have printed in large type on the policies of the company the State or county wherein it was chartered, whether it is a mutual or a stock company, and on all cards and advertising matter issued by him the same information must be printed. Agents of a foreign company must file with the Commissioner a bond in the sum of \$500, conditioned that he will make all the returns required. Agent or broker acting for any person other than himself in securing a contract of insurance shall, for the purpose of receiving the premium, be held to be the company's agent regardless of policy stipulations.

Special Policy Conditions.—Company is prohibited from writing in any town or fire insurance district of a city an amount exceeding its net assets available for the payment of losses in Massachusetts. Company prohibited from insuring property for an amount which, together

with other existing insurance thereon, exceeds a fair value of the property, or for a longer term than seven years. All conditions affecting the contract must be stated in the body of the policy. No misrepresentation made in the application shall affect the policy unless the misrepresentation is made with intent to deceive or increase the risk of loss. Company is prohibited from issuing any policy other than the standard form adopted by the legislature. It may, however, insert additional conditions with the consent of the insured by means of separate slips or riders printed in type not smaller than long primer. Such slip or rider must be signed by an officer or by an authorized agent of the company. Company prohibited from insuring a single risk in a greater sum than one-tenth of its net assets.

Fees.—For filing certified copy of charter, \$30; filing annual statement, \$20; issuing agents' certificate, \$2; issuing certificate of examination, \$2; service of process on Commissioner, \$2; issuing license for agents to do business with unauthorized company, \$20; broker's license, \$10; copies of papers on file, 12 cents per page; certifying same, \$1; other fees regulated by reciprocal provision.

Licenses.—See Agents.

Taxes.—Every company must, prior to November 15 in each year, make a return to the Tax Commissioner, showing the amount insured, premiums received and assessments collected in the State for the year ending October 31 preceding. Thereupon the Tax Commissioner will notify the company of the amount of tax due, which will be paid to the treasurer on December 10 next succeeding. The basis of taxation is two per cent upon all premiums collected in the State. Other taxes regulated by reciprocal provisions.

Penalties.—An agent procuring a policy for a company that has not complied with the provisions of the law is liable to a fine not exceeding \$500; but the policy shall be valid. Agents doing business without authority, or failing to make annual returns, or in any other way violating the provisions of the law, subject to a penalty of \$500 for each offense. An agent procuring the payment of a premium by fraudulent representations incurs a penalty not exceeding \$1000 or imprisonment. Company neglecting to file its statement within the prescribed time is liable to a penalty of \$100 for each day's neglect. For willfully making false statements a penalty of not less than \$500 nor more than \$5000 is provided.

MICHIGAN.

SUPERVISING OFFICER, THERON F. GIDDINGS, COMMISSIONER OF INSURANCE, LANSING.

Preliminary Documents.—Company must file a certified copy of its charter and a verified statement showing its financial condition and a copy of its last annual report. Companies must also stipulate that they will not enter into any agreement of any kind with any other companies to prevent free and open competition in the matter of insurance.

Attorney.—Company must appoint an attorney resident in the State to accept service of legal process, and must file a stipulation agreeing that legal process upon the Commissioner or his deputy shall be binding.

Funds.—Stock companies must possess paid-up capital of not less than \$100,000. Mutual companies that possess at least \$200,000 in premiums or notes and \$10,000 in net cash assets may be admitted on compliance with the other provisions of the law.

Deposit.—Foreign companies are required to have a deposit of \$200,000 with the proper officer of some State for the benefit of its policyholders in this country.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of premiums received on unexpired risks having less than one year to run; *pro rata* of all premiums on unexpired risks that have more than one year to run. Upon perpetual and marine policies the entire amount of the premium must be maintained. When the reinsurance fund thus calculated is less than forty per cent of all premiums received during the year then the whole premium received on unexpired risks shall constitute the reinsurance reserve fund. Company prohibited from writing upon one risk an amount greater than ten per cent of its paid-up capital.

Annual Statements.—Annual statements must be filed within one month from January 1, showing the condition of the company on December 31 preceding.

Agents.—Agents must procure a certificate of authority from the Commissioner and file

a certified copy of the same with the clerk of the county in which his agency is established, together with a copy of the annual statement of the company. A copy of such certificate and statement must be published in a newspaper of general circulation in the State four successive times, and proof of such advertisement must be filed with the Commissioner within thirty days. Certificates renewable annually, and must be filed with the clerk of the county.

Special Policy Conditions.—The standard form of policy adopted by the legislature must be used.

Impairment.—When the capital of a company is impaired to the extent of fifteen per cent its certificate to do business will be revoked.

Fees.—For examination of companies, actual expenses incurred, and \$10 per day for expenses. Other fees regulated by reciprocal provisions.

Licenses.—See Agents.

Taxes.—Upon filing its annual statement company must also file with the State Treasurer a statement showing the gross amount of premiums received in the State during the preceding year, and pay a tax thereon of three per cent. This tax in lieu of all other taxes.

Penalties.—Company transacting business without complying with the law subject to a penalty of \$500 and \$100 additional for each month they continue such unlawful business. Agents doing business without having obtained a certificate liable to a fine of not less than \$50 or more than \$500. For violation of the law regarding compacts certificates of companies will be revoked, and agents are punishable by fine and imprisonment.

MINNESOTA.

SUPERVISING OFFICER, C. H. SMITH, INSURANCE COMMISSIONER, ST. PAUL.

Preliminary Documents.—Company must file with the Commissioner a certified copy of its charter and a verified statement showing the condition and business of the company.

Attorney.—Company must designate the Insurance Commissioner attorney to accept service of legal process.

Funds.—Stock companies must possess paid-up capital of not less than \$200,000. Mutual companies must possess at least \$200,000 of actual cash surplus over and above all liabilities; reciprocal provisions regarding mutual companies.

Deposit.—Foreign companies must have a deposit with the proper officer of some State of at least \$200,000 in approved securities for the protection of all policyholders in the United States.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of all premiums on unexpired risks that have less than one year to run, and *pro rata* on all unexpired risks that have more than one year to run; on unexpired marine and inland risks the entire premium must be reserved.

Annual Statements.—Annual statements must be filed within thirty days from January 1, showing the condition of the company December 31 preceding. Statements must be published at least three times in a daily or weekly newspaper published in either Hennepin or Ramsey counties having a bona fide circulation of 2000 copies or more, or in the county where the State agency of the company is located. Certificate of authority issued to the company must be published with statement and an affidavit of publication must be filed with the Commissioner.

Agents.—Agents must procure from the Commissioner a copy of the certificate issued to company authorizing it to do business, and a similar certificate authorizing the agent to do business. Certificates renewable annually within sixty days from January 1. Soliciting agents for fire insurance must be residents of the State. In all advertisements of the company or agency the name and location of the company must be given, and when the amount of capital is stated the amount at risk at the close of the preceding year must also be stated.

Special Policy Conditions.—A standard form of policy has been adopted by the legislature which is a copy of the form adopted in New York State.

Impairment.—A company whose capital is impaired to the extent of ten per cent will be prohibited from doing business unless the impairment is made good within sixty days.

Fees.—For filing certified copy of charter, \$25; filing annual statement, \$20; certificate of

authority and certified copy thereof, \$1 each; copies of papers on file, 20 cents per folio; certifying same, \$1; examination of companies, actual expenses incurred. Other fees regulated by reciprocal provision. In case the fees do not equal the expenses of the department the Commissioner is authorized to assess for the deficiency equally upon all companies doing business in the State.

Licenses.—See Agents.

Taxes.—Upon filing the annual statement with the Commissioner company must pay to the Insurance Commissioner a tax of two per cent upon all premiums collected within the State during the preceding year. Other taxes regulated by reciprocal provision.

Penalties.—Agents doing business without a license are subject to a fine not exceeding \$100. Company neglecting to file statements as required to forfeit \$100 for each day's default. For making false statements a penalty of \$500 is incurred, and failure to reply to a letter from the Commissioner asking for information subjects offender to a penalty of \$500. Misrepresentation or misleading statements in any advertisements, circulars, etc., is prohibited. And any director, officer or agent guilty of willful participation in such misrepresentation shall be deemed guilty of a misdemeanor and on conviction punished by a fine not exceeding \$1000, or by imprisonment in the county jail not exceeding three months, or by both fine and imprisonment. Any company receiving any note or obligation for the payment of money as a consideration for insurance after the publication of such misrepresentation shall be deemed to have received such money or obligation without consideration, and the person or persons receiving the same shall be liable in a civil action for the repayment thereof, and further liable to the person insured for the amount of the premium paid.

MISSISSIPPI.

SUPERVISING OFFICER, W. W. STONE, AUDITOR OF PUBLIC ACCOUNTS AND INSURANCE COMMISSIONER, JACKSON.

Preliminary Documents.—Company must file with the Auditor a copy of its charter and a verified statement showing its financial condition.

Attorney.—Company must have an agent in the State authorized to accept service of legal process.

Funds.—Company must possess at least \$150,000 of actual capital or assets satisfactorily invested.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed on or before March 1, showing the condition of the company December 31 preceding.

Agents.—Agent must pay a privilege tax to the county collector. The Auditor issues a certificate of authority authorizing him to do business on notification from the company to do so. A copy of the statement filed with the Auditor must be filed in the office of the Chancery Court of the county in which the agency is established. Certificates renewable annually.

Special Legislation.—Valued policy law in force.

Impairment.—No provision.

Fees.—The fees of the Auditor are as follows: For filing and examining annual statement, \$20; for each certificate of authority issued to each agency, \$2.50.

Licenses.—For agent in city of 5000 population or more, \$40; 2000 and less than 5000, \$25; less than 2000, \$20; all other agents, \$15.

Taxes.—Fire companies are required to pay a special privilege tax of \$1000. The city of Vicksburg is authorized to collect a special tax of \$125 annually. A company paying to the Firemens Charitable Association of Vicksburg \$100 is exempt from paying the privilege tax of that city, and after one payment is exempt from paying the same in any one year succeeding in which its losses exceed its net cash receipts in that city.

Penalties.—For violation of the laws relating to insurance the offender incurs a penalty of not less than double the amount of the license.

MISSOURI.

SUPERVISING OFFICER, JAMES R. WADDILL, SUPERINTENDENT OF INSURANCE, ST. LOUIS.

Preliminary Documents.—Company must file with the Insurance Department at St. Louis certified copy of the charter of the company, with all amendments thereto and their dates; a copy of its last annual statement; a certificate from the Insurance Department of its own State that the company has been duly organized and authorized to transact the business for which it was chartered; a certificate from its own State authorities that its capital, not less than \$200,000 (except for accident and plate glass companies, whose capital must be \$100,000), has been fully paid in and invested, with schedule showing the kind of securities in which the investment has been made; a certificate that similar companies of the State of Missouri would be authorized to transact business in the company's home State, upon due compliance with the law; a copy of the appointment of the company's general agent, if any, who would have authority to appoint local agents and solicitors.

Attorney.—The Superintendent of Insurance must be authorized to accept service of legal process.

Funds.—Company must possess paid-up capital of not less than \$200,000.

Deposit.—Foreign companies must deposit with proper officer of any State not less than \$200,000 for benefit of all policyholders in the United States.

Reinsurance Reserve.—Reserve for reinsurance is fifty per cent of premium on unexpired risks having one year or less to run, and a *pro rata* of all term risks. Marine reserve, gross premiums on outstanding risks. Inland reserve, fifty per cent, as for fire.

Annual Statements.—Annual statements showing the condition of company on December 31 must be filed within thirty days after January 1.

Agents.—Local agents and solicitors must have certified copy of company's authority to transact business, as their license. One copy answers for a firm, but each member of the firm must be named therein.

Special Policy Conditions.—The valued policy law is in force; as also a law declaring the "eighty per cent clause" void. NOTE.—The Attorney-General has expressed the opinion that the "anti-trust" law does not apply to local boards or compact agreements.

Impairment.—Impairment of capital is to be treated with the discretion of the Superintendent of the Insurance Department. Mutual fire insurance companies, which take premium notes in States where they are not duly authorized to transact business, will not be admitted to work in Missouri.

Fees.—For filing a copy of charter and preliminary statement of condition, \$50; regular annual statement, \$30; power of attorney and each other paper required to be put on file in the office of the Superintendent, \$10; agent's or solicitor's copy of certificate of authority (license), \$2 each; copies of papers, 20 cents per folio; affixing seal of department, \$1.

Licenses.—In cities of 100,000 population agents must have special license at an annual cost of \$100. Other incorporated towns have license systems under which they demand of insurance agents \$5, \$10, \$15, \$20, or more.

Taxes.—Companies must make sworn report to the Superintendent of the Insurance Department on or before April 30 of all premiums received in the State, whether in cash or by note, during the year ending the preceding 31st of December. On this gross amount the Superintendent levies a State tax of two (2) per cent. Each company must also report on or before April 30 to each county, city or town in which it has done business the actual premiums received and the actual losses paid and on the difference, or net premiums, must pay to the local collectors the local taxes according to the general levy in such county, city or town. If the receipts for such local taxes are filed with the Superintendent of the Insurance Department on or before the 15th of October next ensuing, he will give credit for the amounts thus paid upon the State levy; and the balance of the State tax must be paid to the State Treasurer on or before November 1. After October 15 the Superintendent will not allow any credit for local taxes for any excuse whatever. State taxes are retaliatory.

Penalties.—Companies failing to report local taxes are subject to estimated double assessments, and if they fail to pay taxes levied or fees imposed after ten days' demand are liable for double the amounts. Agents doing business without authority are subject to fines from \$10 to \$100, or imprisonment. The Superintendent of Insurance Department has authority to revoke licenses of companies when, in his judgment, their proceedings are hazardous to the public.

MONTANA.

SUPERVISING OFFICER, A. B. COOK, STATE AUDITOR, HELENA.

Preliminary Documents.—Company must file with the Auditor a certified copy of its charter and a verified statement showing its financial condition.

Attorney.—Company must appoint an attorney in each county in which it has an agency established, resident of the county seat, to accept service of legal process.

Funds.—No requirements.

Deposit.—Foreign companies must have not less than \$100,000 deposited with the proper officer of some State for the benefit of all its policyholders in the United States.

Reinsurance Reserve.—No requirement.

Annual Statements.—Annual statements must be filed with the Auditor within ninety days from January 1, showing the condition of the company December 31 preceding. Blanks for such statements to be furnished by the Auditor.

Agents.—Agents must obtain a certificate of authority from the Auditor, and in all advertisements the name and location of the company they represent must be stated, and they are prohibited from advertising unpaid capital or any assets not available for the payment of its losses.

Special Policy Conditions.—No provision.

Impairment.—Agents are prohibited from doing business for any company whose capital is impaired to the amount of twenty per cent.

Fees.—To be paid to Auditor: Filing charter and issuing certificate, \$50; certificate must be published in two papers of general circulation; for filing annual statements, \$25; issuing certificate of authority, \$2; copies of papers on file, twenty cents per folio; certifying same, fifty cents; for examination, actual expenses incurred. Other fees regulated by reciprocal provision.

Licenses.—See Agents.

Taxes.—Agents are required to report the amount of premiums received to the Assessor of the county wherein he does business, and to pay a tax at the same rate as is assessed upon other personal property. Agents are personally liable for the tax. This in lieu of all other taxation except on real estate.

Penalties.—In case an agent neglects to make return of the premiums collected for taxation the Assessor of his county will make such assessment, and the County Board of Equalization may, at its discretion, add fifty per cent to the amount returned by the Assessor.

NEBRASKA.

SUPERVISING OFFICER, EUGENE MOORE, AUDITOR OF PUBLIC ACCOUNTS, LINCOLN.

Preliminary Documents.—Company must file with the Auditor a certified copy of its charter and a verified statement showing its financial condition and a copy of its last annual statement.

Attorney.—Company must appoint an attorney, residing at the county seat of each county wherein the company has an agency, to accept service of legal process.

Funds.—Company must possess an actual paid-up capital of \$200,000 exclusive of assets, deposited for the special benefit of policyholders in any other State or Territory.

Deposit.—Companies must have on deposit in some State not less than \$25,000 for the benefit of all policyholders.

Reinsurance Reserve.—The reinsurance fund must be maintained at forty per cent of the premiums on unexpired risks.

Annual Statements.—Annual statements must be filed within thirty days from January 1 showing the condition of the company on December 31 preceding, and must publish once annually in two newspapers of general circulation, one of which newspapers shall be published at the capital of the State; a certificate from the Auditor of State that such company has in all respects complied with the laws of this State relating to insurance.

Agents.—Agents must procure a certificate from the Auditor showing that the company has

complied with the requirement of the law. In all advertisements agents must give the name and location of the company and the government under which it is organized.

Special Policy Conditions.—This State has a valued policy law.

Impairment.—Company prohibited from doing business after its capital is impaired to the extent of twenty per cent.

Fees.—For filing application of company and issuing certificate, \$50; filing annual statement, \$20; issuing certificate of authority, \$2; copies of papers on file, 20 cents per folio; certifying same, 50 cents; examination of companies, actual expenses incurred; other fees regulated by reciprocal provisions.

Licenses.—See Agents.

Taxes.—Agent must report to the Assessor of the county in which he does business the amount of premiums collected during the preceding year, and after deducting losses and expenses actually incurred within the State shall pay a tax at the same rate as other personal property is taxed. Agents personally liable for the tax.

Penalties.—No provision.

NEVADA.

SUPERVISING OFFICER, R. L. HORTON, STATE CONTROLLER, CARSON CITY.

Preliminary Documents.—Company must file with the Controller a certificate showing that it has a paid-up cash capital of \$200,000.

Attorney.—Companies must appoint a resident of the State attorney to accept service of legal process. In case the company is without such attorney at any time, the Controller is authorized to accept service.

Funds.—Company must possess a paid-up capital of \$200,000.

Deposits.—Foreign companies must have deposited in the United States \$200,000 in excess of its liabilities in this country for the benefit of all policyholders in the United States.

Reinsurance Reserve.—Company must maintain a reinsurance reserve equal to fifty per cent of the premiums on risks having less than one year to run, and *pro rata* on all risks of more than one year.

Annual Statements.—Annual statements must be filed on or before the first day of March showing the condition of the company December 31 preceding.

Agents.—No provision.

Special Policy Conditions.—If, in case of total loss, the amount thereof is ascertained to be less than the amount insured, the insurer shall return to the insured the unearned premium for the excess of the insurance over the ascertained loss.

Impairment.—Upon the application of three citizens, or at the pleasure of the Controller, he may make examination of a company or require proof of its financial condition. A certificate of the proper officer of any other State will be accepted as evidence that the capital of the company is unimpaired. If such certificate is not furnished within sixty days after request, certificate of the company to do business will be revoked.

Fees.—For filing power of attorney and issuing certificate, \$5.

Licenses.—Company required to pay an annual license fee of \$100.

Taxes.—No provision.

Penalties.—Company neglecting to file annual statement within the specified time forfeits \$100 for each day's default, and upon notice by the State Controller its certificate to do business while such default continues will be suspended. For making false statement, the company or person making or subscribing to the oath may severally be punished by fine of not less than \$500 nor more than \$5000.

NEW HAMPSHIRE.

SUPERVISING OFFICER, JOHN C. LINEHAN, INSURANCE COMMISSIONER, CONCORD.

Preliminary Documents.—Company must file with the Insurance Commissioner a certified copy of its charter and by-laws, and a verified statement showing the condition of the company.

Attorney.—Company must file stipulation appointing the Insurance Commissioner its attorney to accept service of legal process.

Funds.—Stock companies must possess a paid-up capital of \$200,000, and in addition assets equal in amount to all its outstanding liabilities. Each mutual company must have available assets amounting to \$200,000.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of the premiums on unexpired fire risks and the entire premium on unexpired marine risks.

Annual Statements.—Annual statements must be filed on or before February 1, showing the condition of the company on December 31 preceding.

Agents.—The agents of foreign insurance companies, excepting steam boiler insurance companies, shall be residents of the State. No officer or agent thereof shall act or aid in any manner in the negotiation of any insurance with such company until he shall have procured from the Insurance Commissioner a license so to do. The license shall state in substance that the company is authorized to transact business in this State and that the person named therein is the constituted agent of the company for that purpose. Such license is renewable annually on April 1.

Special Legislation.—Anti-compact law in force. Also valued policy law and reciprocal law.

Impairment.—When, upon examination, a company is found to be in an unsound condition the Commissioner shall revoke its license by written notice to the company, and by publication of such notice in one newspaper published at Concord and one at Manchester. Mutual companies prohibited from doing business if its assets do not equal its outstanding liabilities.

Fees.—For filing copy of charter, \$25; filing annual statement, \$15; issuing license to company, \$5; annual renewal of same, \$5; issuing license to agent, \$2; annual renewal of same April 1, \$2.

Licenses.—See Agents.

Taxes.—Company is required to file a statement with the Commissioner on or before February 1 each year, showing the gross premiums received in the State during the preceding year. The Commissioner will thereupon assess a tax of one per cent upon such premiums and notify the company, and the tax so assessed must be paid to the State Treasurer within thirty days after such notice.

Penalties.—For any violation of the law relating to insurance a penalty not exceeding \$2000 for each offense is imposed. Agent acting without license, or for an unauthorized company, subject to a penalty of \$100 for each offense.

NEW JERSEY.

SUPERVISING OFFICER, GEORGE S. DURYEE, COMMISSIONER OF BANKING AND INSURANCE,
TRENTON.

Preliminary Documents.—Company must file with the Insurance Commissioner a verified statement certifying that the company has at least \$150,000 of capital well invested, over and above all liabilities, and furnish a list of all agents authorized to do business in the State, giving the name and residence of each.

Attorney.—No requirement.

Funds.—Company must possess at least \$150,000 actual paid-up capital.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed in the month of January, showing the condition of the company December 31 preceding. Such statement must state the name, residence and the amount of premiums received by each agent of the company in the State during the year.

Agents.—Agents must procure from the Insurance Commissioner a certificate authorizing them to do business in the State. Certificates renewable annually in the month of January.

Special Policy Conditions.—All policies issued in the State must conform to the standard form prescribed by law.

Impairment.—If upon examination it is found that the assets of the company, after charging it with its liabilities, amount to less than three-fourths of its capital stock, the Insurance Commissioner will revoke its license and publish such notice in two newspapers published in Trenton and Newark at least six times.

Fees.—For filing copy of charter, \$20; filing annual statements, \$20; issuing certificate to agent, \$2. Other fees governed by reciprocal provision.

Licenses.—See Agents.

Taxes.—Company is required to report in its annual statement the gross amount of premiums received in the State during the preceding year and pay a tax thereon to the Insurance Commissioner of two per cent. Every company must make a return on January 1 and July 1 of each year to the treasurer of the duly incorporated firemen's relief association in each locality in the State wherein any property may be situated on which the company may have taken an insurance risk, of all premiums received during the preceding six months for insurance upon property in such place, and within one month thereafter to pay a tax of two per cent on such premiums. Agents are required to make similar returns and pay a like tax on premiums; payments made by agents are deducted from the amount paid by the company. The amount thus paid by the company to be deducted from the amount payable to the Insurance Commissioner.

NEW MEXICO.

SUPERVISING OFFICER, DOMETRIO PEREZ, TERRITORIAL AUDITOR, SANTA FE.

Preliminary Documents.—Company must file satisfactory evidence that it has a paid-up capital of \$300,000.

Attorney.—An attorney must be appointed in each county in which the company does business to accept service of legal process. Such attorney must reside at the county seat and be an agent of the company.

Funds.—Company must have a paid-up capital of \$300,000.

Deposit.—Foreign companies must have on deposit in some State or Territory at least \$100,000 for the benefit of all its policyholders in this country.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed with the Territorial Auditor in the month of January, showing the condition of the company December 31 preceding.

Agents.—Agents are required to report to the Auditor by February 1 the amount of premiums collected in the Territory and at the same time pay to him his annual license fee. Every agent or solicitor must be a resident of the Territory.

Special Policy Conditions.—No requirement.

Impairment.—If upon examination it appears to the satisfaction of the Auditor that the affair is in an unsound condition, he shall revoke the certificate granted.

Fees.—Examining charter and issuing license, \$25; filing statement, \$5; for each certificate of authority, \$1.

Licenses.—The annual license applies to agents doing general insurance business, said license to be regulated by the gross amount of premiums received by each agent during the year for all companies represented by him. The agents, and not the companies, pay these licenses.

Taxes.—The companies are subject to pay taxes upon the excess of premiums received over losses and ordinary expenses incurred within the Territory during the year previous to the year of listing the property in the county where the agent conducts the business, properly proportioned by the company at the same rate that any other personal property is taxed. Real estate owned by companies is also subject to taxes.

Penalties.—No provision.

NEW YORK.

SUPERVISING OFFICER, J. F. PIERCE, SUPERINTENDENT OF INSURANCE, ALBANY.

Preliminary Documents.—Company must file with the Superintendent of Insurance a certified copy of its charter, a verified statement showing the financial condition of the company as near as may be to date of application. Company must obtain from the Superintendent a certificate of authority to do business.

Attorney.—Company must appoint the Superintendent of Insurance its attorneys to accept service of legal process.

Funds.—Company must possess at least \$200,000 of paid-up capital.

Deposit.—Foreign companies not incorporated within the United States must deposit with the Superintendent of Insurance the sum of \$200,000 in stocks of the United States, or of the State of New York, or in bonds secured by mortgage on improved unincumbered real estate in the State of New York worth fifty per cent more than the amount loaned thereon, or stocks or bonds of any incorporated city of this State authorized to issue the same by the legislature, such stocks or bonds not to be rated above their current market value. Such companies must have within the United States deposited with insurance departments, or held by trustees, not less than \$500,000.

Reinsurance Reserve.—The unearned premium fund must be maintained at fifty per cent of all premiums on unexpired fire risks having one year or less to run; *pro rata* for all premiums on unexpired fire risks having more than one year to run, and the entire premium on unexpired marine risks.

Annual Statements.—Annual statements must be filed in the month of January, showing the condition of the company December 31 preceding.

Agent.—Each agent must procure from the Superintendent a certificate of authority showing that the company has been admitted to do business in the State. A certified copy of such certificate must be filed at the office of the clerk of the county wherein the office of the agent is located. Agent under original certificate of authority, must also file with the County Clerk a copy of the statement of the company and publish certificate of authority four successive times in the paper in which said notice was published, and within thirty days file with the Superintendent an affidavit that such publication has been made. Agents located in incorporated cities or villages are required to execute a bond for \$500, with sureties satisfactory to the treasurer of the fire department, conditioned that he will make correct returns of the amount of premiums received by him and pay the tax imposed thereon. In the city or county of New York such bonds must be in the sum of \$1000. Certificates of authority to be renewed annually. Agents to the number of 200 may be specially licensed to do business for unauthorized companies. Such agent must issue a bond in the penal sum of \$2000, in satisfactory sureties, conditioned that he will comply with the requirements of the act and pay the tax upon premiums received for such unauthorized companies. Advertisements showing the financial condition of the company must exhibit the actual cash capital paid in and the net surplus over all liabilities. Such statements in advertisements must correspond with the verified statement filed in the Insurance Department.

Special Policy Conditions.—All policies issued in this State must conform to the law prescribing the standard form of policy.

Impairment.—When the capital of a stock company is impaired to the extent of twenty-five (25) per cent its certificate of authority to do business will be revoked. The certificate of a mutual company will be revoked when its assets are not equal to its liabilities.

Fees.—For filing charter, \$30; filing annual statement, \$20; issuing certificate of authority and certified copy of same, such sum not exceeding \$5, as the Superintendent may elect; for examination of companies, actual expenses incurred; copies of papers on file, 10 cents per folio; certifying same, \$1. Other fees regulated by reciprocal provisions.

Licenses.—See Agents.

Taxes.—Agents of companies located in incorporated cities or villages, except New York and Buffalo, must on February 1 annually make to the treasurer of the fire department in such city or village a verified statement of premiums received by him in such city or village for the preceding year, and shall pay to the treasurer a tax of \$2 on the \$100, and at that rate for the whole amount of premiums received by him. Companies from countries foreign to the United

States shall pay to the Treasurer of the State annually, on or before August 1, as a franchise tax, a sum equal to one-half of one per cent on the gross amount of premiums received during the preceding year ending June 30 on business done in the State. A tax of two per cent must be paid by companies doing business in New York city to the trustees of the Exempt Firemen's Benevolent Fund. Companies must, on or before August 1, make a return to the Comptroller of the State, showing the total amount of premiums received during the year ending June 30 on business done in the State. Real estate to be taxed where situated for State, city, town, county, village school and other local purposes.

Penalties.—For any violation of the law relating to insurance the offender incurs a penalty of \$500 unless a different sum is specifically provided for in the insurance law. Companies failing to make annual statements as required subject to a penalty of \$500 and \$500 for each month it remains in default.

NORTH CAROLINA.

SUPERVISING OFFICER, OCTAVIUS COKE, SECRETARY OF STATE, RALEIGH.

Preliminary Documents.—Company must file with the Secretary of State a copy of its charter and a verified statement of its standing and financial condition on December 31 preceding.

Attorney.—Company must appoint a general agent and citizen and resident of the State as attorney to accept service of legal process.

Funds.—No provision.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—General agent must file with the Secretary of State on or before March 1 the annual statement of the company, showing its condition on December 31 preceding. Abstracts of the annual statement must be published in some State paper of general circulation.

Agents.—Every general agent required to file in January and July in each year a verified statement showing the gross premium receipts obtained from residents of the State during the preceding six months.

Special Policy Conditions.—No provision.

Impairment.—No provision.

Fees.—No provision.

Licenses.—The fee for license to company is \$100 per annum and 50 cents for each agent. License renewable annually April 1. *Pro rata* for portions of a year.

Taxes.—A tax of two per cent on gross receipts to be paid to the Secretary of State prior to February and August 15 is imposed. If, however, the company shall invest in real estate or loan to citizens of the State an amount equal to one-half of its gross premium receipts the tax shall be but one per cent.

Penalties.—General agent who shall neglect or refuse to perform any duty required of him by the insurance laws shall forfeit and pay to the Secretary of State \$50 for each offense. Any person acting in any manner for an insurance company otherwise than as the law permits shall forfeit and pay to the sheriff of the county in which he may be found, for the use and benefit of such sheriff, \$50 for every offense. An agent unlawfully retaining or expending the funds of the company shall upon conviction be deemed guilty of a felony and punished accordingly.

NORTH DAKOTA.

SUPERVISING OFFICER, JAMES CUDHIE, COMMISSIONER OF INSURANCE, BISMARCK.

Preliminary Documents.—Company must file with the Commissioner of Insurance a certified copy of its charter and a statement showing its financial condition.

Attorney.—Company must appoint in each judicial district an attorney to accept service of legal process.

Funds.—Company must possess at least \$100,000 capital paid in.

Deposit.—None required.

Reinsurance Reserve.—Must be maintained at fifty per cent of unexpired premiums.

Annual Statements.—Annual statements must be filed in the month of January, showing the condition of the company December 31 preceding. Companies of foreign charters have until May to submit reports of business transacted outside of the United States. Annual statement must be printed at least three times in some newspaper of general circulation printed in each judicial district in which such company shall have an agency. A duplicate of such statement must be filed in the office of the Register of Deeds, in the county in which the agency is established. Statements for publication to be made out on blanks furnished by the Commissioner. Company must furnish the Commissioner proof of publication of such statement.

Agents.—Each agent must obtain from the Commissioner a certificate to do business. Certificates renewable annually.

Special Policy Conditions.—The New York Standard Policy is used.

Impairment.—When twenty per cent of capital is absorbed, the Commissioner may take measures to have the capital reduced to a point of safety.

Fees.—For filing charter, \$25; filing annual statement, \$10; furnishing copies of same for publication, 20 cents per folio; certifying same, \$1; issuing certificates of authority to company or certified copy of same, \$2; issuing certificates to agents, \$2. Each individual member of a firm must have a certificate.

Licenses.—No provision.

Taxes.—Companies must, at the time of making their annual statements, pay into the State treasury a tax of two and one-half per cent on the gross premiums received in the State during the preceding year. A duplicate receipt therefor must be filed with the Commissioner. Upon receiving such duplicate receipt the Insurance Commissioner shall issue the annual certificate authorizing the company to do business. This tax to be in full of all State and local taxes.

Penalties.—Any violation of the provisions of the act subjects the offender to a penalty of \$500. Agents neglecting to file affidavits and statements required incur an additional penalty of \$100 for each month during which they are in default.

OHIO.

SUPERVISING OFFICER, WM. M. HAHN, SUPERINTENDENT OF INSURANCE, COLUMBUS.

Preliminary Documents.—Company must file with the Superintendent a certified copy of its charter and a verified statement showing its financial condition.

Attorney.—A stipulation must be filed with the Superintendent to the effect that service of legal process made upon any agent of the company shall be valid.

Funds.—Company must have a fully paid-up capital of not less than \$100,000.

Deposit.—Foreign companies must deposit with the Superintendent \$100,000 in the stocks of the State of Ohio or United States bonds for the benefit of policyholders in the State.

Reinsurance Reserve.—The reinsurance reserve must be maintained at fifty per cent of the premiums on unexpired risks.

Annual Statements.—Annual statements must be filed within thirty days from January 1, showing the condition of the company on December 31 preceding.

Agents.—Agent must procure from the Superintendent a license for each company he represents, and a certified copy of such license must be deposited by him in the office of the Recorder of the county in which his office is located. Licenses to be renewed annually.

Special Conditions.—It is unlawful for any company or agent authorized to do business in the State to place insurance on Ohio property outside of the State, on penalty of a revocation of their license.

Impairment.—When the assets of any joint stock insurance company other than life, after deducting therefrom all actual liabilities and a reinsurance fund equal to fifty per cent of the whole amount of premiums on all unexpired risks and policies, are reduced twenty per cent or more below the capital stock required by law, the Superintendent shall require the officers thereof to direct the stockholders to pay in the amount of such deficiency, within such period as he designates in such requisition; if such requisition equals forty per cent of the capital, it

shall be unlawful for the company to transact business until authorized by the Superintendent to resume; if less than forty per cent, and the officers notify the stockholders to make good the amount, the company may continue in business for thirty days; then if the impairment is not made good, the company will not be permitted to continue.

Fees.—For filing charter, \$25; filing preliminary statement, \$20; filing annual statement, \$20; for issuing certificate of authority or license and certified copy thereof, \$2; copies of papers on file, 20 cents per folio; certifying same, \$1. Examinations of companies, actual expenses incurred. Other fees regulated by reciprocal provisions.

Licenses.—See fees.

Taxes.—Every agency of an insurance company, and every agency of any company or association transacting business in this State under the provisions of section 3630e of the Revised Statutes, incorporated by the authority of any other State or government, shall return to the Auditor of each county in which such company or association does business, or from which it collects premiums or assessments, on or before the first day of May, annually, the amount of the gross premium and assessment receipts of such agency for the previous calendar year in such counties; provided, however, that in the case of regular companies, wherein policyholders participate in the surplus and earnings of the company, dividends or surplus from previous payments allowed and used in the payment of current premiums, cancellation or surrender values, and commissions paid to the citizens of this State, during the same period for which receipts are reported, shall be deducted from such gross receipts, and the net amount after such deductions shall be the basis of taxation for such companies under this section; which shall be entered upon the tax list of the proper county, and be subject to the same rate of taxation for all purposes that other personal property is subject to at the place where located, and the whole of said tax shall be due and payable on the 20th day of November next ensuing; and it shall be the duty of the Superintendent of Insurance, in the month of December, annually, to charge and collect from such companies or associations such a sum as, added to the amount paid to the county treasurers, will produce an amount equal to two and one-half per cent on such receipts of such companies and associations, as shown by their annual statements under oath to the Insurance Department; provided, however, that if by the laws of any other State, Territory or nation a larger tax than two and one-half per cent on such receipts is charged companies or associations organized under the laws of Ohio, then the Superintendent of Insurance shall charge a like tax upon companies or associations from such State, Territory or nation doing business in this State. If any such company or association refuses to pay said tax after demand therefor has been made, or if it shall make any false statement of its receipts as herein provided, the Superintendent shall revoke the license of such company or association to do business in this State. If at any time said Superintendent has reason to suspect the correctness of the return made by such company or association, he may, at the expense of the State, make an examination of the books of such company or association, or of its agents, for the purpose of verifying the same. All taxes collected under the provisions of this section by the Superintendent of Insurance shall be paid by him, upon the warrant of the Auditor, into the general revenue fund of the State. In case any such insurance company shall fail to make return to the office of the Auditor of the county in which the office or agency of such insurance company may be kept, in the month of February, annually, the amount of the gross receipts of such agency for entry upon the tax list of the proper county, such auditor shall forthwith give notice of such failure to the Superintendent of Insurance, and said Superintendent shall, upon the receipt of such notice from said auditor, forthwith revoke and recall the license and authority to such insurance company to do or transact business within this State, and no renewal of authority shall be granted to such insurance company for three years after such revocation, and it shall be prohibited from transacting any business in this State until again duly licensed and authorized so to do, and the said returns shall have been duly made.

Penalties.—For soliciting business for an unauthorized company, or doing business without a license, or in any manner violating the provisions of the insurance law, the offender is liable to a fine not exceeding \$1000, or imprisonment not exceeding six months, or both. Company neglecting or refusing to make an annual statement subject to a fine of \$500, and \$500 additional for each month it continues in default. For violating the provisions relating to advertisements after a second notice from the Superintendent, the offending company is liable to a fine of \$1000.

OKLAHOMA TERRITORY.

SUPERVISING OFFICER, THOS. J. LOWE, SECRETARY OF THE TERRITORY, AND EX-OFFICIO COMMISSIONER OF INSURANCE, GUTHRIE.

Preliminary Documents.—Company must file with the Commissioner a copy of its charter and a verified statement of its condition, and obtain a certificate to do business.

Attorney.—An attorney must be appointed in each county in which the company does business to accept service of legal process.

Funds.—Company must be possessed of at least \$100,000 securely invested.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed on or before February 1, showing the condition of the company December 31 preceding.

Agents.—Must obtain certificates of authority from the Commissioner, and upon their office signs and policies issued display the name of the company and its location.

Special Legislation.—Valued policy law in force, and companies prohibited from writing more than seventy-five per cent of the value of the property insured.

Impairment.—When the capital of a company is impaired to the amount of twenty-five per cent, the Commissioner may cause it to reduce its capital to the safety point.

Fees.—For filing charter, \$30; filing annual statement, \$10; issuing certificate of authority to agents, \$2 each; for copies of papers on file, 20 cents per folio, and \$1 for certifying same.

License.—A license of \$25 per year is exacted of each company.

Taxes.—Taxes are governed by reciprocal legislation.

Penalties.—For any violation of the insurance laws a penalty of \$500 is provided, and \$100 additional for each month the company remains in default.

OREGON.

SUPERVISING OFFICER, GEO. W. MCBRIDE, SECRETARY OF STATE, EX-OFFICIO INSURANCE COMMISSIONER, SALEM.

Preliminary Documents.—Company must file with the Insurance Commissioner a certificate of the proper officer of some State having an insurance department, certifying that it possesses at least \$200,000 capital and is duly organized to do an insurance business.

Attorney.—A citizen and resident of the State must be appointed attorney to accept service of legal process.

Funds.—Each company must have a paid-up capital of not less than \$200,000.

Deposit.—Company must deposit with the State Treasurer \$50,000 in securities of the United States or State of Oregon.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed with the Commissioner within thirty days from January 1, showing the condition of the company December 31 preceding.

Agents.—No provision.

Special Policy Conditions.—Valued policy law went into effect May 17, 1893.

Impairment.—Upon complaint of three citizens a Commissioner is empowered to examine a company unless within sixty days after demand the company shall file with him a certificate from the proper officer of some State setting forth that it is in a sound financial condition. If such certificate is not presented within sixty days the certificate of the company to do business shall be revoked.

Fees.—To Commissioner: Filing power of attorney and issuing certificate, \$5; annual license to company, \$50; for examination, actual expenses incurred. To Treasurer: For filing certificate of deposit and printing notice, \$10; for keeping deposit, one-eighth of one per cent on such deposit (annually \$62.50).

Licenses.—See Fees.

Taxes.—Companies must appoint a general agent to receive reports from all other agents in the State. On or before March 1 such general agent shall furnish the Commissioner annually a verified statement showing the gross premiums received, from which shall be deducted the amount of returned premiums, reinsurance, agents' commissions, taxes, expenses, licenses and losses paid in the State, and upon the net premiums the company must pay within thirty days from the date of such annual statement to the Insurance Commissioner a tax of one per cent and a fee of \$5 to the Commissioner for filing such statement.

Penalties.—For doing business without authority a fine of \$500 is imposed. Any violation of the provisions of the insurance law subjects the offender to a fine of not less than \$100 nor more than \$500. For misstatements in advertisements a fine of \$500 is imposed.

PENNSYLVANIA.

SUPERVISING OFFICER, GEORGE B. LUPER, INSURANCE COMMISSIONER, HARRISBURG.

Preliminary Documents.—Company must file with the Commissioner a certified copy of its charter and a verified statement showing its condition and affairs.

Attorney.—Company must designate a person to accept service of legal process.

Funds.—Company must have a capital of not less than \$200,000; or if it has less than \$200,000 capital, but more than \$100,000, it must have a surplus over all liabilities which, added to its capital stock, will make more than \$200,000.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance reserve must be maintained at fifty per cent of all premiums on unexpired fire risks having less than one year to run; *pro rata* on unexpired risks having more than one year to run, and the entire premium on unexpired marine and inland risks.

Annual Statements.—Annual statements must be filed within sixty days from January 1, showing the condition of the company December 31 preceding.

Agents.—Companies must certify to the Commissioner the names of the agents it appoints, and each agent must obtain from the Commissioner a certificate showing that the company has complied with the legal requirements and that he is its duly appointed agent. Certificates to be renewed annually.

Special Policy Conditions.—When the policy contains a reference to the application or to the constitution and by-laws of the company, either as a part of the policy or having any bearing thereon, copies of such application, constitution or by-laws must be attached to the policy, and unless so attached shall not be considered as a part of the policy or accepted in evidence.

Impairment.—When a company is impaired to the extent of twenty per cent of its capital stock the Commissioner is required to notify the company to make it good within sixty days, and if this is not done he will revoke the certificate issued to the company.

Fees.—For filing copy of charter, \$25; filing annual statement or certificate in lieu thereof, \$20; for issuing certificate of authority and certified copy, \$2; for copies of papers on file, twenty cents per folio; certifying same, \$1; examination of companies, actual expenses incurred. When the expenses of the Insurance Department exceed the amount of fees collected the Commissioner is authorized to assess the companies proportionately to make up the deficiency. Other fees regulated by reciprocal provision.

Licenses.—No provision.

Taxes.—Company is required to report to the Commissioner in January of each year the gross amount of premiums received in the State during the preceding year, and to pay into the State treasury a tax of two per cent on such premiums.

Penalties.—Company neglecting to make any statements required will forfeit \$100 for each day's default. Any person doing business for an unauthorized company, or company doing business without complying with the law, incurs a penalty of \$500 for each month and fraction thereof in which such illegal business is transacted.

RHODE ISLAND.

SUPERVISING OFFICER, ALBERT C. LANDERS, INSURANCE COMMISSIONER, PROVIDENCE.

Preliminary Documents.—Company must file with the Commissioner a certified copy of its charter and a verified statement showing the condition and affairs of the company.

Attorney.—Company must appoint the Insurance Commissioner as its attorney to accept service of legal process.

Funds.—Company must possess a capital of \$100,000.

Deposit.—None required.

Reinsurance Reserve.—None required.

Annual Statements.—Annual statements must be filed within thirty days from January 1, showing the condition of the company December 31 preceding. The commissioner is required to publish in the month of February, in pamphlet form, an abstract of the statement filed in his office, the companies to bear the expense of publication.

Agents.—Agents are required to give a bond, with two or more sureties, to the State Treasurer in the sum of at least \$200, conditioned to make the annual returns required and to pay the taxes as prescribed. An agent doing business in one town prohibited from establishing a branch agency in another town. Companies are prohibited from doing business except through lawfully constituted and licensed resident agents.

Special Policy Conditions.—None required.

Impairment.—Commissioner is authorized to make examinations of the companies and to inquire into their solvency. All expenses to be paid by the company examined.

Fees.—For filing certified copy of charter, \$30; filing annual statement, \$20; issuing certificate to agent, \$2; for furnishing a copy of service of process, \$2; examination of companies, actual expenses incurred. Other fees regulated by reciprocal provision.

Licenses.—Companies and agents must obtain license from the Commissioner.

Taxes.—Each agent is required to make returns to the General Treasurer during the month of January of each year of the amount of insurance obtained by him, the premiums received and assessments collected during the preceding year, and pay at the same time to the General Treasurer a tax of two per cent on the amount of all premiums and assessments collected. Other taxes regulated by reciprocal provisions.

Penalties.—Any person acting as agent for an insurance company who has not complied with all requirements of the law is liable to a fine of not less than \$300 nor more than \$1000. An agent doing business without complying with the law, liable to a penalty of \$1000. Agent refusing to answer inquiry addressed to him by the Commissioner for thirty days may be fined \$1000.

SOUTH CAROLINA.

SUPERVISING OFFICER, W. H. ELLERBE, COMPTROLLER-GENERAL OF STATE, COLUMBIA.

Preliminary Documents.—Company must file with the Comptroller-General a certified copy of its charter and a verified statement showing its financial condition.

Attorney.—Company must file power of attorney for each agent to accept service of legal process.

Funds.—No requirements.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed on or before March 31. Agents of foreign companies required to report between January 1 and February 20 the gross receipts of their agencies and the value of personal property situated at said agency.

Agents.—The license received authorizes each company to appoint as many agents in the State as suits its business, provided a certified copy of the appointment of each agent, giving his post-office address and residence, is filed with the Comptroller-General before the agent does any business.

Special Policy Conditions.—No requirements.

Impairment.—No provision.

Fees.—For license issued to company, \$100.

Licenses.—See Fees.

Taxes.—Each agent is required to make an annual return between January 1 and February 20 to the Auditor of the county in which he is located showing the gross receipts of the agency during the preceding year, and the value of any personal property located at the agency belonging to the company, and must pay taxes on the amount so returned the same as other personal property is taxed. Agents are personally responsible for the payment of the taxes. The city of Columbia imposes an additional license tax of \$50 for the first \$1000 of premiums taken and \$30 for each additional thousand.

Penalties.—For every violation of the insurance law a penalty of not less than \$100 nor more than \$500 is provided for each offense.

SOUTH DAKOTA.

SUPERVISING OFFICER, J. E. HIPPLE, AUDITOR OF STATE, PIERRE.

Preliminary Documents.—Company must file with the Auditor a copy of its charter and a statement showing its financial condition.

Attorney.—An attorney to accept service of legal process must be appointed in each judicial district.

Funds.—No requirement.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed within thirty days from January 1, showing the condition of the company December 31 preceding. Companies of foreign countries required to transmit a statement of business different than that done in the United States prior to March 1. Statement must be published at least three times in one of three newspapers designated by the Auditor, printed and published in each judicial district in which the company shall have an agency, within ninety days from the date of filing such statement. Statements for publication to be made on blanks furnished by the Auditor. The legal cost of such publication is fixed at 75 cents per square of twelve lines of nonpareil type, or its equivalent, for the first insertion, and 50 cents per square for each subsequent insertion. Fractional parts of a square to be paid for at the rate of 10 cents per line nonpareil. Affidavit of publication must specify that the amount charged for such publication inures to the benefit of the publisher solely.

Agents.—Agents must obtain from the Auditor a certificate entitling them to do business. Certificates renewable annually as soon after the filing of the annual statement as possible.

Special Policy Conditions.—No requirement.

Impairment.—When the capital of a company is impaired twenty per cent or more, the Auditor may take measures to have it reduced.

Fees.—For filing certified copy of charter, \$25; filing annual statement, \$10; issuing certificate of authority and certified copy thereof, \$2; copies of papers on file, 20 cents per folio; certifying same, \$1; examination of companies, actual expenses incurred, not to exceed \$10 per diem.

Licenses.—No provision.

Taxes.—At the time of making the annual statement company is required to pay into the treasury $2\frac{1}{2}$ per cent of gross premiums received in the State during the preceding year, taking duplicate receipts therefor, one of which must be filed with the Auditor. This tax in lieu of all other State and local taxes.

Penalties.—For any violation of the law a penalty of \$500 for each offense is provided. For neglect to file statements and affidavits as required, an additional penalty of \$100 for each month of default is provided.

TENNESSEE.

SUPERVISING OFFICER, E. B. CRAIG, COMMISSIONER OF INSURANCE, NASHVILLE.

Preliminary Documents.—Company must file a certified copy of its charter and a verified statement showing its condition December 31 preceding.

Attorney.—Company must appoint the Insurance Commissioner its agent to accept service of legal process and stipulate that service on the Commissioner shall be valid.

Funds.—Company must possess at least \$200,000 cash capital, of which \$100,000 must be invested in United States bonds, or bonds of one or more States, or other good securities. Certificates of the proper officer of the State in which the company is organized is required as to invested funds.

Deposit.—Foreign companies must have on deposit with the proper officer of some State, held in trust for the benefit of all policyholders in the United States, approved stocks and securities to the value of \$200,000.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of all premiums on unexpired risks having not more than one year to run, and *pro rata* on risks having more than one year to run.

Annual Statement.—Annual statements must be filed within thirty days from December 31, showing the condition of the company December 31 preceding.

Agents.—Company must certify to the Commissioner the names of all agents appointed in the State, and agents must obtain from the Commissioner certificates of authority to do business. Certificates renewable annually in January. Certificates duly certified must be deposited with the clerk of the county in which the office of the agent is located. Agents personally liable for insurance placed in unauthorized companies.

Special Policy Conditions.—No requirement.

Impairment.—Commissioner is authorized to make examinations, and where the capital of a company is impaired more than twenty per cent to revoke its charter to do business in the State and to cause such revocation to be published at least three times in a newspaper of general circulation.

Fees.—For filing copy of charter, \$5; filing annual statement, \$15; filing additional statement, \$5; issuing certificate of authority, \$1.50; copies of papers on file, 20 cents per folio; certifying same, \$1; examinations of companies, actual expenses incurred. Other fees regulated by reciprocal provision.

Licenses.—Charges for licenses governed by reciprocal provision.

Taxes.—Company is required to report on June 30 and December 31 in each year the amount of premiums collected in the State during the preceding six months, and to pay into the State treasury in January and July \$2.50 on each \$100 of premiums received. Each agent, agency or firm in counties of 50,000 (Davidson, Shelby, Hamilton and Knox counties) shall pay a State tax of \$20; in counties of less than 50,000 \$10, in lieu of all other taxes, such tax to be paid to the Insurance Commissioner. Other taxes regulated by reciprocal provision.

Penalties.—Agent doing business for unauthorized company liable to a penalty of \$500 for each offense. Company neglecting to make returns or pay taxes as required incurs a penalty of \$500.

TEXAS.

SUPERVISING OFFICER, JOHN HOLLINGSWORTH, INSURANCE COMMISSIONER, AUSTIN.

Preliminary Documents.—Company must file with the Commissioner a copy of its charter and by-laws with all amendments, and a verified statement showing the condition of the company. Certificates issued to the company must be published three successive weeks in two newspapers printed in the State; first publication to be made within thirty days after issuance of the certificate and proof of publication filed with the Commissioner.

Attorney.—Company must appoint some person in the State its attorney to accept service of legal process.

Funds.—Company must possess an actual paid-up capital of \$100,000, exclusive of assets held in other States, for the benefit of policyholders in such States.

Deposit.—None required.

Reinsurance Reserve.—The reinsurance fund must be maintained at fifty per cent of the premium received on one year risks, and *pro rata* for unexpired term risks and the entire premium on unexpired marine and inland risks.

Annual Statements.—Annual statements must be filed within sixty days from January 1, showing the business of the company December 31 preceding.

Agents.—Agents must procure from the Commissioner a certificate of authority, to be renewed annually within sixty days from January 1.

Special Legislation.—The valued policy law provides that in case of a total loss the policy shall be held as a liquidated demand against the company for the full amount of its face. It applies, however, only to policies on buildings. An anti-trust law is in force, but its application to insurance is contested in the courts.

Impairment.—Commissioner authorized to examine companies, and when the capital stock is found to be impaired to the extent of twenty per cent to revoke its certificate of authority to do business.

Fees.—Filing certified copy of charter, \$25; filing annual statement, \$20; issuing certificate of authority, \$1; copies of papers on file, 20 cents per folio; certifying same, \$1; examination of companies, \$10 per day and actual expenses incurred, not exceeding \$250. Other fees regulated by reciprocal provision.

Licenses.—Companies required to pay an annual license tax of one-half of one per cent on gross premium receipts of previous year.

Taxes.—See Licenses.

Penalties.—For any violation of the provisions of the insurance law the offender is liable to a penalty of not less than \$500 nor more than \$1000.

UTAH.

SUPERVISING OFFICER, C. C. RICHARDS, SECRETARY OF TERRITORY, SALT LAKE CITY.

Preliminary Documents.—Company must file with the Secretary a certified statement showing the condition of the company.

Attorney.—Some person residing in the county in which the principal office of the company is located must be appointed attorney to accept service of legal process.

Funds.—Company must have a paid-up capital of not less than \$200,000.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be made in the month of April, and during the same month published at least four times in some newspaper of general circulation published in Utah.

Agents.—Must procure a certificate of authority from the Secretary of the Territory.

Special Policy Conditions.—No provision.

Impairment.—No provision.

Fees.—Fees to be paid to the Secretary: For filing statements, \$5; for issuing certificate of authority and each subsequent authority, \$5; certifying documents, \$1.50.

Licenses.—No provision.

Taxes.—No provision.

Penalties.—For any violation of the provisions of the law relating to insurance the offender shall be judged guilty of a misdemeanor and punished accordingly.

VERMONT.

SUPERVISING OFFICERS, CHAUNCEY W. BROWNELL, SECRETARY OF STATE, BURLINGTON;
HENRY F. FIELD, STATE TREASURER, RUTLAND.

Preliminary Documents.—Company must file with the Secretary of State a certified copy of its charter and by-laws and a statement showing its financial condition.

Attorney.—Company must appoint the Secretary of State its attorney to accept service of legal process.

Funds.—Company must have a paid-up capital of \$100,000, one-half of which must be invested in cash securities other than mortgages on real estate, and in addition assets equal to all its outstanding liabilities.

Deposit.—None required.

Reinsurance Reserve.—The reserve fund must be maintained at fifty per cent of the premiums on unexpired fire risks and the entire premium on marine risks.

Annual Statements.—Annual statements must be filed previous to the first day of March annually, showing the condition of the company December 31 preceding.

Agents.—Agents must file with the Commissioner a certificate of appointment by the company or its general agent and obtain a license to do business. Licenses renewable annually April 1.

Special Policy Conditions.—Companies are liable for the acts of their agents as between them and the insured, and if this is not specified in their articles of incorporation their policies must contain a proviso to that effect. If any judgment against the company remains unpaid thirty days after demand and notice to the Commissioners, the Commissioners may suspend the license of the company. The Commissioners may revoke the license of any company for violation of the insurance laws.

Impairment.—Commissioners are authorized to make examinations, and when the capital of a company is found to be impaired to the extent of twenty per cent to suspend its license to do business.

Fees.—For filing annual statement, \$20 ; issuing license to company, \$5 ; issuing license to agent, \$1. Each company must obtain a license from the Commissioners to do business, to be renewed annually April 1.

Taxes.—Each company must pay annually in the month of February a tax of two per cent on the gross amount of premiums and assessments collected on their business in this State. Reciprocal provisions apply to all taxes, fees, fines, penalties, deposits, obligations or prohibitions, when by the laws of any other State or foreign country greater taxes, fees, fines, penalties, etc., are required than those above stated.

Penalties.—Agents doing business for an unauthorized company subject to a fine not exceeding \$500. For any violation of the insurance law the offender is liable to a fine not exceeding \$2000.

VIRGINIA.

SUPERVISING OFFICER, MORTON MARYE, AUDITOR OF PUBLIC ACCOUNTS, RICHMOND.

Preliminary Documents.—Companies must deposit with the Treasurer bonds of the State of Virginia, or of the United States, or of the cities of Richmond, Petersburg, Lynchburg, Norfolk, Alexandria, Danville, Winchester or Staunton, to an amount equal in cash value to five per cent of its capital stock, but not less than \$10,000 nor more than \$50,000. Company, through its agent in Virginia, must give bond, with approved sureties of not less than \$1000 nor more than \$5000, conditioned to make returns and pay taxes as required by law.

Attorney.—Company must appoint a citizen of the State and resident of the city of Richmond its attorney to accept service of legal process. In the absence of such attorney, service may be made on the Auditor of the State.

Funds.—No provision.

Deposit.—See Preliminary Documents.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed with the Auditor by March 31, showing the condition of the company on the last day of its fiscal year. Statements to be published once a week for four successive weeks in such newspaper as the Auditor may direct, having reference in such selection to the place in Virginia where principal business of the company is transacted. Publication at the expense of the company.

Agents.—No provision.

Special Policy Conditions.—All policy conditions and restrictive provisions are required to be printed in long primer type or written in the policy with pen and ink.

Impairment.—No provision.

Fees.—No provision.

Licenses.—Upon making the deposit required and paying into the treasury a special license tax of \$200 a license will be issued to the company authorizing it to do business in the State, except that for a live stock company the specific tax is \$100. The license tax to be paid annually on January 1.

Taxes.—Company must certify to the Auditor on or before March 1 in each year the gross amount of all assessments, premiums, dues and fees collected or received, or obligations taken therefor, and immediately pay into the State treasury a tax of one per cent every year. Treasurer authorized to assess companies one-twentieth of one per cent upon the face value of securities deposited with him to defray expenses of his office in safe keeping and handling such securities.

Penalties.—For doing business for an unauthorized company a penalty of not less than \$30 nor more than \$1000 for each offense is provided. For neglect to pay taxes a penalty of five per cent a month on the amount of such tax during the continuance of the default is provided. For failure to make annual report a company forfeits from \$100 to \$1000. Auditor shall publish such failure.

WASHINGTON.

SUPERVISING OFFICERS, JAMES H. PRICE, SECRETARY OF STATE; L. R. GRIMES, AUDITOR, OLYMPIA.

Preliminary Documents.—Company must file with the Secretary of State, who is ex-officio the Insurance Commissioner, a copy of its charter certified by the State or county officer having custody of the original; also a certificate of the proper officer of the State in which it was organized, setting forth that it has unimpaired capital of not less than \$100,000.

Attorney.—A citizen and resident of the State must be appointed to accept service of legal process. In the absence of such attorney, service may be made upon the Commissioner.

Funds.—Company must possess unimpaired capital paid up of not less than \$100,000.

Deposit.—Foreign companies must have on deposit with the proper officer of some State not less than \$200,000 in bonds of the United States, of Washington, or of New York or Massachusetts, in trust for the benefit of all policyholders in the United States. Other deposits regulated by reciprocal provision.

Reinsurance Reserve.—The reinsurance reserve fund must be maintained at a sum equal to 40 per cent of the premium on all unexpired risks.

Annual Statements.—Company must file with the Commissioner, on or before January 15, a statement showing the business done in the State during the previous year, and on or before March 1 must file the usual statement showing the condition of the company December 31 preceding.

Agents.—No provision.

Special Policy Conditions.—In the event of the total destruction of property insured on which the amount of agreed loss shall be less than the total amount insured thereon, the insuring company shall return to the insured the unearned premium for the excess of insurance over the agreed loss, to be paid at the same time and in the same manner as the loss shall be paid. Company prohibited from writing upon one risk an amount in excess of 10 per cent of its capital stock, unless such excess be at once reinsured in some other company.

Impairment.—It is made the duty of the Commissioner, upon the written representation of three citizens and the belief of the Commissioner that the unimpaired cash capital of the company is less than the amount required, to notify the company thereof, and unless the deficiency is made good within thirty days, to revoke its certificate of authority.

Fees.—Filing articles of incorporation or certified copies of documents required to be filed and issuing certificate of license, \$10; for filing annual statement, each, \$5; filing other papers,

\$1; copies of papers on file, 20 cents per folio; certifying same, \$1; for examination of companies, \$5 per day.

Licenses.—Company must obtain certificate or license to do business from the Commissioner.

Taxes.—Companies must file with the State Auditor annually, on or before the 1st day of April in each year, a statement, under oath, stating the amount of all premiums received by them during the year, and shall pay into the State Treasury a tax of 2 per cent on all such premiums collected, less the amount of losses paid in the State.

Penalties.—For doing business without having complied with the law the offender shall, on conviction, be deemed guilty of a misdemeanor, and be subject to a fine of not less than \$100 nor more than \$500, and imprisonment for a term not exceeding six months. For failure to respond to a subpoena issued by the Commissioner, a fine of not less than \$100 nor more than \$500 is imposed, or imprisonment in the county jail not less than thirty days nor more than six months, or both fine and imprisonment.

WEST VIRGINIA.

SUPERVISING OFFICER, I. V. JOHNSON, STATE AUDITOR, CHARLESTON.

Preliminary Documents.—Company must file with the State Auditor a statement showing its financial condition and obtain a certificate of authority to do business in the State. Such certificate must be published in some newspaper of general circulation published in the State, and copies of such publication must be filed in the office of the Circuit Court of each county wherein the company does business. Certificates to be renewed and published annually as above.

Attorney.—A resident of the State must be appointed to accept service of legal process.

Funds.—Company must possess at least \$100,000 capital invested in approved securities.

Deposit.—None required.

Reinsurance Reserve.—No provision.

Annual Statements.—Annual statements must be filed in the month of January, showing the condition of the company December 31 preceding.

Agents.—Agents must procure from the Auditor certificates of authority, renewable January 1 or within sixty days thereafter, and cause the same to be published the same as is required for companies' certificates. Agents must procure from the city clerk of Wheeling a certificate authorizing him to do business in that city and to make returns to such clerk before January 15 and July 15 of each year, showing the premiums collected in the State during the preceding six months, and to pay taxes thereon as provided by law.

Special Policy Conditions.—No requirement.

Impairment.—Auditor is authorized to make examinations of companies, and when satisfied that a company is in an unsound condition he is required to revoke its certificate of authority, and to publish notice of such revocation in some newspaper of general circulation published at the capital of the State. Expenses of examination to be paid by company, and Auditor may require security in advance for such payment.

Fees.—For filing statement, \$10; issuing certificate of authority, \$5. Other fees regulated by reciprocal provision.

Licenses.—No provision.

Taxes.—At the time of filing its annual statement the company is required to pay into the treasury a tax of two per cent upon gross premiums collected in the State during the preceding year. The city of Wheeling is authorized to impose an additional tax of one-half of one per cent annually upon premiums collected in that city.

Penalties.—Company or agent failing to make the returns or pay taxes or fees required, or willfully making false returns, incurs a penalty of not less than \$20 nor more than \$200 for each offense. For transacting business for company that has not complied with the requirements of the law a penalty of \$50 is imposed for each offense.

WISCONSIN.

SUPERVISING OFFICER, WILBUR M. ROOT, COMMISSIONER OF INSURANCE, MADISON.

Preliminary Documents.—Company must file with the Commissioner a certified copy of its charter and a verified statement showing its financial condition, and copy of its last annual report.

Attorney.—Company must appoint Commissioner of Insurance or his successor in office as its attorney to accept service of legal process, and such appointment must contain the provision that the company will not remove any suit against it from a State to a United States court. A copy of such power of attorney must be filed with the Insurance Commissioner. In the absence of a duly constituted attorney, service may be made on any agent of the company.

Funds.—Stock companies must possess an actual cash capital of \$200,000. Admission of mutual companies governed by reciprocal provisions.

Deposit.—Foreign companies must have on deposit with the proper officer of some State or in the hands of trustees who are citizens and residents of the United States at least \$200,000 for the security of all policyholders in the State. In the absence of such deposit company must deposit with the State Treasurer stocks and bonds of the value of \$50,000.

Reinsurance Reserve.—The reinsurance reserve must be maintained at fifty per cent of the premiums on all unexpired fire risks and the full premium on unexpired marine and inland risks.

Annual Statements.—Annual statements must be filed within thirty days from January 1, showing the condition of the company on December 31 preceding.

Agents.—Agents must procure from the Insurance Commissioner certificates of authority authorizing them to do business in the State. Certificates expire January 31 and are renewable annually. Advertisements must represent only such assets as are exclusively for the protection of fire policyholders, and must show the financial standing of the company, exhibiting only the capital actually paid up in cash and surplus of assets over liabilities. Such advertisements must correspond with the verified statement filed with the Commissioner.

Special Legislation.—A valued policy law provides that where property shall be destroyed without criminal fault on the part of the insured the amount named in the policy shall be deemed the true value of the property at the time of such loss. Companies are prohibited from writing upon property within the State except through regularly licensed agents who are residents of the State.

Impairment.—Commissioner is authorized to examine companies and to publish results of such examination when he deems necessary. When he finds the capital stock of a company impaired to the extent of fifteen per cent he shall suspend it from doing business in the State while such deficiency continues.

Fees.—Filing certified copy of charter, \$25; filing annual statement, \$25; issuing certificate to agent, \$2; copies of papers on file, 15 cents per folio; certifying same, 50 cents; examination of companies, actual expenses incurred. Other fees regulated by reciprocal provisions.

Licenses.—Companies must procure a license and pay to the State Treasurer a license fee on or before February 1 of each year. For amount of such fee see Taxes.

Taxes.—At the time of making the annual statement company must file a statement showing the gross premiums collected in the State during the preceding year, and pay into the Treasury a tax of two per cent thereon. Agents located in incorporated cities or villages having organized fire departments required to give bonds to the Treasurer of such department in the sum of \$1000, conditioned that they will, on or before February 1 of each year, make a report to such Treasurer of premiums received in such city or village during the preceding year, and pay to such Treasurer a tax thereon at the rate of \$2 on every \$100.

Penalties.—For doing business without authority a fine of not less than \$50 nor more than \$500 is imposed. For making false statements a fine of not less than \$500 nor more than \$1000 is imposed. For doing business except through licensed State agent charter to be revoked for ninety days and not reinstated until all requirements have been complied with.

WYOMING.

SUPERVISING OFFICER, C. W. BURDICK, AUDITOR AND EX-OFFICIO INSURANCE COMMISSIONER, CHEYENNE.

Preliminary Documents.—Company must file with the Auditor, who is *ex-officio* the Insurance Commissioner, a certified copy of its charter and a verified statement showing its financial condition. On receiving certificate to do business the same must be published in two newspapers of general circulation, one of which must be published at the capital.

Attorney.—Company must authorize one agent in each county in which agencies are established, resident at the county seat, to accept service of legal process.

Funds.—Company must have a paid-up capital of \$300,000 to do business in the State.

Deposit.—Companies of foreign countries must have deposited \$100,000 in some one of the States or Territories.

Reinsurance Reserve.—Reinsurance fund must be maintained at fifty per cent of the premiums on all risks having less than one year to run, and *pro rata* on all other unexpired risks.

Annual Statements.—Annual statements must be filed within sixty days from January 1.

Agents.—Agents required to obtain a certificate of authority from the Commissioners, and in all advertisements give the name and location of the company and State, its actual paid-up capital and cash assets.

Special Policy Conditions.—No requirement.

Impairment.—The Commissioner is authorized to examine companies and to publish the result of such examination in one or more newspapers. If the capital of a company is found to be impaired to the extent of twenty per cent, its certificate to do business will be revoked during the period such deficiency shall continue.

Fees.—For filing application and issuing certificate, \$50; filing annual statement, \$25; issuing certificates to agents, \$1; copies of papers on file, 15 cents per folio; certifying same, 50 cents; examinations of companies, actual expenses incurred.

Licenses.—No provision.

Taxes.—Agents are requested to make returns to the assessors of the counties wherein they do business, showing the amount of premiums received in the State during the preceding year, and to pay a tax upon the excess of such receipts over ordinary expenses the same as is charged against other personal property. Agent personally liable for the tax. The law requires companies to pay a tax to the Treasurer of any incorporated town or city within the State for support of fire department of such city or town of one per cent upon the amount of all premiums received for insurance in said city or town. Agents required to give bond to city of \$500 securing payment of this tax. [This tax was resisted by some companies and the courts declared it to be unconstitutional.]

Penalties.—For doing business without compliance with the law a fine of not less than \$50 nor more than \$1000, or imprisonment, or both, is imposed.

STATISTICS OF FOREIGN COMPANIES.

The statistics given under this head have been condensed from The Post-Magazine Almanack for 1894, except in a few instances where credit is given.

DIRECTORY OF FIRE INSURANCE COMPANIES IN GREAT BRITAIN.

Date of Organization.	NAME AND LOCATION OF COMPANY.	Character of Business.	Name of Manager and Secretary.
1824	Alliance, London.....	Life and Fire.....	Robert Lewis, Sec.
1824	Alliance, London, E. C.....	Marine and General..	E. W. Nicholls, Man.
1828	Atlas, London, E. C.....	Fire and Life.....	S. J. Pipkin, Sec.
1876	Bolton Cotton Trade, Bolton.....	Fire.....	P. Kevan, Sec.
1892	Brewers and General, London.....	Fire and License	P. M. James, Sec.
1863	British and Foreign, Liverpool.....	Marine	John Davis, Man.
1888	British Law, London, E. C.....	Fire.....	H. Foster Cutler, Man.
1828	British Union, London.....	Fire and Accident....	E. St. John Phillips, Man.
1873	Bute, Rothesay.....	Fire.....	A. D. Macbeth, Sec.
1805	Caledonian, Edinburgh.....	Fire and Life.....	D. Deuchar, Man.
1887	Cambridge University and Town, Cambridge.....	Fire.....	Arthur Rutter, Sec.
.....	China Traders, London, E. C.....	Marine.....	W. Schmidt, Man.
1878	Colonial Mutual Fire, London, E. C.....	Marine.....	H. J. Symons, Under.
1887	Commercial Fire of Scotland, Edinburgh.....	Fire and Personal Acc	R. Aiton Taylor, Man.
1861	Commercial Union, London, E. C.....	Fire, Life and Marine	H. Mann, Sec.
1891	Congregational Fire, Huddersfield....	Trust Property only..	S. R. Antliff, Sec.
1867	Co-operative, Manchester.....	Fire, Life and Fidelity	James Odgers, Man.
1807	County, London.....	Fire.....	S. A. Beaumont, Man. Dir.
1888	Cumberland & Westmoreland, Whitehaven.....	Fire.....	Andrew Reed, Sec.
1890	Eastern Counties, Hull.....	Fire.....	Henry R. Carr, Sec.
1887	Ecclesiastical Buildings, London, W. C.....	Fire.....	John Duncan, Sec.
1886	Economic Fire, London, E. C.....	Fire.....	J. Carswell, Sec.
1888	Economic Reinsurance, London, E. C.....	Fire Reinsurance....	J. Carswell, Man.
1840	England, London.....	Fire and Life.....	H. M. Baker, Sec.
1873	Equitable Fire and Acc., Manchester..	Fire and Accident....	D. R. Paterson, Sec.
1802	Essex & Suffolk Equitable, Colchester..	Fire.....	Robert Anderson, Sec.
1875	Federative, Oldham.....	Fire and Fidelity	J. Wainwright, Man.
1890	Fine Art, London.....	Fire, Burg. & Transit	Claude G. Hay, Sec.
1888	Free Church of Scotland Fire, Edinburgh.....	Trust Property only..	William Brown, Sec.
1893	Friendly Societies, London, E. C.....	Fire and General.....	W. C. Pearce, Sec.
1870	Globe Marine, London, E. C.....	Marine	B. Francis Cobb, Sec.
1821	Guardian, London	Fire and Life	T. G. C. Browne, Sec.
1696	Hand-in-Hand, London, E. C.....	Fire, Life and Annuity	B. Blenkinsop, Man.
1868	Hong Kong, London, E. C.....	Fire.....	C. G. Hay, Man.
1893	Hull Underwriters, Hull.....	Marine	Jackson, Beaumont & Co., Mans.
1803	Imperial Fire, London.....	Fire.....	E. Coxens Smith, Man.
1824	Indemnity Mutual, London, E. C.....	Marine	Henry Haslam, Under.
1802	Kent, Maidstone.....	Fire.....	Walter L. Seyfang, Man.
1852	Lancashire, Manchester.....	Life and Fire.....	Digby Johnson, Man.
1845	Law Fire, London, W. C.....	Fire.....	George William Bell, Sec.
1854	Law Union, London.....	Life, Fire & Annuities	A. Mackay, Man.
1879	Lion Fire, London, E. C.....	Fire.....	T. B. Bell, Man.
1836	Liverpool & London & Globe, L'pool..	Fire, Life & Annuities	John M. Dove, Man.
1862	London and Lancashire, Liverpool....	Fire.....	C. G. Fothergill, Man.
1860	London and Provincial, London, E. C.....	Marine	J. Daniell, Sec.
1720	London Assurance Corp., London.....	Fire, Life and Marine	C. A. Denton, Sec.
1824	Manchester, Manchester.....	Fire.....	J. B. Moffat, Sec.
1836	Marine, London.....	Marine	F. A. White, Man.
1864	Maritime, Liverpool.....	Marine	P. G. Shallcross, Sec.
1871	Merchants Marine, London, E. C.....	Marine	Alfred Dawson, Sec.
1876	Millers Mutual, London, E. C.....	Mutual Fire Insurance	J. H. Chatterton, Sec.
1872	Morley Mutual, Morley.....	Fire.....	William Smith, Sec.
1822	National Assurance of Ireland, Dublin..	Fire, Life and Ann...	Harold Engelbach, Sec.
1822	National Marine, London, E. C.....	Marine	W. Gray, Sec.
1809	North British & Mercantile, Edinburgh	Fire, Life and Ann...	H. Burnett, Fire Man.
1883	North China, London, E. C.....	Marine	S. H. Morris, Man.
1878	North Yorkshire Agricul., Northallerton	Fire.....	G. J. Roimson, Sec.

DIRECTORY OF FIRE INSURANCE COMPANIES IN GREAT BRITAIN—Continued.

Date of Organization.	NAME AND LOCATION OF COMPANY.	Character of Business.	Name of Manager and Secretary.
1836	Northern, London, E. C.	Fire and Life.	James Valentine, Man.
1863	Northern Maritime, N'castle-on-Tyne.	Marine.	J. Ferguson, Under.
1797	Norwich Union Fire, Norwich.	Fire.	C. E. Bignold, Sec.
1859	Ocean Marine, London, E. C.	Marine.	A. Price, Sec.
1862	Oldham, Oldham.	Fire.	Samuel Clegg, Sec.
1884	Oldham & Dist. Tradesmens, Oldham.	Fire.	John Berry, Sec.
1886	Palatine Fire, Manchester.	Fire, Acc. and Guar.	J. N. Lane, Man.
1824	Patriotic of Ireland, Dublin.	Life and Fire.	B. H. O'Reilly, Man.
1782	Phoenix, London.	Fire.	W. C. & F. B. Macdonald, Secs.
1866	Primitive Methodist, York.	Fire (trust prop. only)	Rev. Chas. Smith, Sec.
1881	Reliance Marine, Liverpool.	Marine.	W. B. Broadbent, Sec.
1845	Royal, Liverpool.	Fire, Life and Ann.	Charles Alcock, Man.
1720	Royal Exchange Assurance, London.	Fire, Life, Ann., Ship	E. R. Handcock, Sec.
1885	St. Columb. District Mut., Cornwall.	Fire.	George G. Bullmore, Sec.
1888	Scottish Alliance, Glasgow.	Fire and Accident.	W. A. Tipping, Man.
1824	Scottish Union and National, Edinb'h.	Fire, Life and Ann.	A. Duncan, Man.
1870	Sea, Liverpool.	Marine.	William Bates, Sec.
1864	Southern (of Melbourne), Lon., E. C.	Marine.	G. F. Watt, Sec.
1871	Standard Marine, Liverpool.	Marine.	J. Gick, Sec.
1801	State Fire, Liverpool.	Fire.	James McLaren, Man. and Sec.
1886	Straits Fire, London.	Fire and Marine.	Crawford D. Kerr, Man.
1883	Straits, London, E. C.	Marine.	Crawford D. Kerr, Man.
1710	Sun Fire, London.	Fire.	E. H. Mannerling, Sec.
1860	Thames and Mersey, London, E. C.	Marine.	H. Buckland, Sec.
1892	Times Mutual, Manchester.	Fire.	A. Hobson, Sec.
1867	Ulster Marine, Belfast.	Marine.	Sinclair & Boyd, Mans.
1863	Union Marine, Liverpool.	Marine.	J. S. Allen, Sec.
1714	Union, London.	Fire and Life.	W. G. Wilkins, Man.
1883	United Fire Agency, London, E. C.	Industrial Fire.	J. Williams, Sec.
1883	Welsh Baptist, Brynteg, Burry Port.	Fire (trust prop. only)	Isaac Phillips, Sec.
1886	Welsh Calvinistic Methodist, Liverpool.	Fire (trust prop. only)	W. J. Hughes, Sec.
1872	Wesleyan Meth'ist Trust, Manchester.	Fire (trust prop. only)	Henry Plummer, Sec.
1872	West of England, Exeter.	Fire and Life.	E. H. Smithett, Man.
1886	West of Scotland, Glasgow.	Fire.	G. Mc Gregor, Sec.
1717	Westminster, London, W. C.	Fire.	Chas. Rouse Brown, Sec.
1883	Yangtsee (of Shanghai), London, E. C.	Marine.	R. Blackwell, Man.
1824	Yorkshire, York.	Fire and Life.	J. A. Cunningham, Sec.

FOREIGN FIRE INSURANCE COMPANIES TRANSACTING BUSINESS IN THE UNITED KINGDOM.

Date of Organization.	NAME AND LOCATION OF COMPANY.	Name of Manager or Agent.
1890	Allians, Berlin.	Carl Schriener.
1891	Argus, Paris.	I. Olarte.
1880	Commerciale, Paris.	I. Olarte.
1887	Esperance, Brussels.	A. Morin de Premion.
1877	Fire Insurance Company of 1887, Hamburg.	F. M. Hartung.
1879	Fonciere Pest, Pest.	Heckscher & Pearson.
1879	Franco Hongroise, Pest.	Heckscher & Pearson.
.....	Hollandia, Amsterdam.	G. McKay Morant.
1875	Hamburg-Magdeburg, Hamburg.	T. E. Wirgman.
1794	Insurance of North America, Philadelphia.	W. H. Spiller.
1844	Magdeburg, Magdeburg.	T. E. Wirgman.
1868	North German, Hamburg.	G. McKay Morant.
1820	Patriotische, Hamburg.	F. M. Hartung.
.....	Phoenix, Hartford, Conn.	Charles McLaren, Man.
.....	Phoenix (London office), Hartford, Conn.	Geo. S. Denney, Res. Sec.
1865	Phoenix, Vienna.	Heckscher & Pearson.
1845	Prussian National, Stettin.	E. Goimick.
1839	Riunione Adriatica, Trieste.	Heckscher & Pearson.
.....	Salamauder, Amsterdam.	G. McKay Morant.
1866	Svea, Gothenburg.	W. H. Spiller.
.....	Tokio, Tokio, Japan.	Gellatly, Hankey & Co.
1872	Transatlantic, Hamburg.	A. Absell.
1890	Union des Proprietaires, Brussels.	A. Morin de Premion.
1890	Urbaine Belge, Brussels.	A. Morin de Premion.

NEW INSURANCE ASSOCIATIONS OF GREAT BRITAIN.

REGISTERED BETWEEN JANUARY 1 AND DECEMBER 31, 1893.

TITLE OF COMPANY.	Objects.	Date.	Nominal Capital.
Bankers Guarantee.....	Guaranteeing principal, interest, etc.....	May 2	£10,000 in £10 shares.
Blindness.....	All kinds of insurance except life.....	April 29	£100 in £1 shares.
Brewers Mutual License.....	To insure licenses.....	Feb. 21	Guarantee of £5 per member.
Bridge Street F.S.....	Sickness and funeral expenses.....	July 14	Unlimited. Without capital.
British Corporation.....	All kinds of insurance except life.....	June 12	£100 in 1s. shares.
Equitable Steam Ship.....	Marine insurance.....	Feb. 10	Unlimited. Without capital.
Friendly Societies Fire & General	Fire and all kinds except life and marine.....	July 27	£25,000 in £1 shares.
Gresham Life.....	Life and annuities.....	July 28	[Re-registration of an existing company.] £100,000 in £5 shares.
Guardian Fire and Life.....	Fire, life and annuities....	May 25	[Re-registration of an existing company.] £2,000,000 in £100 shares.
Hearts of Britain Benefit and Dividend.....	Fire, accident, and all kinds except Life.....	March 9	£2,000 in £5 shares.
Hull Smackowners Protection and Indemnity.....	Marine insurance.....	April 13	Guarantee of £5 per vessel.
Hull Underwriters.....	Marine insurance.....	April 25	£175,000 in £10 shares.
Investment Insurance.....	All kinds of insurance (except life) and guarantee..	Jan. 6	£500,000 in £5 shares.
Keel and Lighter Owners Mutual	Marine insurance.....	Feb. 11	Guarantee of £3 per vessel.
Law Burglary.....	Burglary and all kinds except life.....	May 16	£100 in 1s. shares.
Licensed Victuallers.....	All kinds except life.....	June 10	£2,000 in £1 shares.
London Provident.....	Insuring property against fire, storm and accident..	June 12	£1,000 in £1 shares.
Leeds Mutual Plate Glass.....	Plate glass.....	Dec. 18	Guarantee of 1s. a member.
Life and Reversionary Interest...	To purchase reversionary interests and to insure capital, dividends, etc....	June 14	£5,000 in £1 shares.
National Prudential Glass.....	All kinds except life.....	Nov. 17	£10,000 in £1 shares.
North Staffordshire Plate Glass...	Plate glass insurance.....	Feb. 28	£2,000 in £5 shares.
Norwich Union Life.....	Life and annuities.....	May 10	[Registration of an existing company.] Unlimited.
Port of Plymouth Fishermans...	Marine insurance.....	March 3	Guarantee of £2 a member.
Premier Medical Aid.....	Medical Aid.....	Jan. 27	£2,000 in £1 shares.
Prudential Glass.....	Plate and other glass insurance.....	Sept. 5	£5,000 in £1 shares.
Reliance Mutual Life.....	Life insurance.....	May 12	[Registration of an existing company.] Unlimited.
Rent Book Fire.....	Fire insurance and all kinds except life.....	Nov. 17	£2,000 in £1 shares.
Runciman Steam Shipping.....	Marine insurance.....	Jan. 30	Unlimited. Without capital.
Spring Gardens Sick and Burial.	To take over business of F.S. held at Spring Gdns., Wardle, sickness and funeral.....	March 7	Unlimited. Without capital.
Structural and Sanitary.....	San., ins. except life.....	June 19	£10,000 in £5 shares.
Theatres and Music Halls Mutual Insurance Club Syndicate.....	"To reduce the present exorbitant and unjust rates for insurance, especially against fire, charged on theatres and music halls by insurance companies."	Aug. 12	£1,000 in £1 shares.
Traders Accident.....	Accident, employers' liability and all kinds except fire and life.....	Aug. 14	£1,000 in £1 shares.
Universal Steamship Mutual....	Marine insurance.....	July 8	Guarantee of £5 per member.
United Kingdom Commercial Trade Protection.....	Accident and guarantee....	Dec. 14	£2,000 in £1 shares.
United Kingdom Shipping Share Protection.....	Marine insurance.....	Nov. 2	£25,000 in 500 £10 shares and £20,000 in £1 shares.
<i>Registered in Scotland.</i>			
Aberdeen Mutual Steam Ship and Trawlers.....	Marine insurance.....	Feb. 9	Unlimited. Without capital.
Broadsea and East Aberdeenshire Boat.....	Marine insurance.....	March 29	£1,000 in £1 shares.
Dog, Poultry and Pigeon.....	Live stock insurance, etc....	March 1	£10,000 in £1 shares.
Scottish Midland Plate Glass...	Plate glass.....	April 3	£2,000 in £1 shares.
South of Scotland Glass.....	Glass insurance.....	Dec. 30	£1,000 in £1 shares.

FIRE INSURANCE IN GREAT BRITAIN.

Synopsis of the published Revenue Accounts of the Fire Insurance Companies transacting business in the United Kingdom, as shown by their latest reports. Compiled from The Post-Magazine Almanack.

NAME OF COMPANY.	Year.	Net Premiums.	Net Losses.	Fire Fund Exclusive of Paid-up Capital.	PERCENTAGE TO PREMIUM INCOME.	
					Losses.	Ex-penses.
Alliance.....	1892	532,182	282,587	817,129	53.0	34.5
Atlas.....	1892	301,079	199,200	336,133	66.1	31.5
Bolton Cotton Trade.....	1893	8,232	418	111,457	5.1	8.3
British Law.....	1892	39,526	23,044	21,647	58.3	55.1
Bute.....	1892	374	23	2,920	6.1	38.2
Caledonian.....	1892	499,950	263,027	518,387	52.6	29.0
Cambridge University and Town.....	1893	1,645	165	7,872	10.0	43.9
Commercial of Scotland.....	1892	14,621	5,397	2,186	36.9	42.5
Commercial Union.....	1892	1,010,515	751,146	813,219	74.3	32.7
Co-operative.....	1892	9,199	5,261	15,781	57.1	31.3
County.....	1892	259,595	114,527	307,821	44.1	30.1
Cumberland and Westmoreland.....	1892	1,090	403	539	36.9	40.5
Eastern Counties.....	1893	2,644	966	1,251	36.5	51.3
Ecclesiastical Buildings.....	1893	14,665	9,467	15,158	64.5	64.5
Economic Fire.....	1892	246,963	192,623	Nil.	77.9	34.0
Economic Reinsurance.....	1892	18,079	16,306	Nil.	90.2	22.9
Employers of Great Britain.....	1892	16,513	14,427	N. S.	87.3	28.7
Equitable Fire and Accident.....	1892	163,847	110,493	55,122	66.1	34.6
Essex and Suffolk Equitable.....	1892	26,921	23,195	139,536	86.1	27.8
Federative.....	1892	2,275	2,162	19,762	95.0	19.6
Fine Art.....	1892	10,758	5,701	1,102	53.0	43.1
Fire Insurance Association.....	1892	103,226	68,299	46,050	66.1	36.3
Free Church of Scotland.....	1892	1,302	604	2,086	46.4	19.2
Guardian.....	1892	602,432	412,624	762,847	68.4	35.5
Hand-in-Hand.....	1892	81,148	45,648	N. S.	56.2	30.0
Hong Kong.....	1892	72,033	49,533	228,892	68.7	22.3
Imperial.....	1892	773,723	507,542	1,298,658	65.5	34.1
Kent.....	1892	73,658	46,081	179,639	62.5	33.9
Lancashire.....	1892	922,848	607,205	352,026	65.8	30.8
Law Fire.....	1892	129,888	53,017	186,961	40.8	29.4
Law Union and Crown.....	1892	67,094	22,875	118,275	34.1	30.6
Lion.....	1892	204,299	150,266	73,024	73.5	33.4
Liverpool and London and Globe.....	1892	1,585,196	1,029,568	2,711,797	64.9	30.6
London and Lancashire.....	1892	881,056	628,646	706,141	71.3	33.7
London Assurance Corporation.....	1892	443,968	295,183	556,420	66.4	33.4
Magdeburg.....	1891	635,693	416,390	539,881	65.5	23.7
Manchester.....	1892	515,802	302,496	313,700	58.6	32.8
National of Ireland.....	1892	245,135	185,770	108,296	75.7	32.4
North British and Mercantile.....	1892	1,467,318	998,384	2,361,554	68.0	33.0
Northern.....	1892	710,762	480,100	1,200,942	67.5	33.1
Norwich Union.....	1892	858,393	556,798	873,611	64.8	31.7
Palatine.....	1892	405,292	267,831	184,687	66.2	32.7
Patriotic.....	1892	190,053	139,214	51,754	73.2	33.3
Phoenix.....	1892	1,110,251	847,697	1,490,863	76.3	30.1
Primitive Methodist.....	1893	1,845	317	21,064	17.1	16.2
Royal.....	1892	2,033,933	1,409,409	3,011,302	69.3	32.5
Royal Exchange.....	1892	217,451	106,310	224,688	48.8	32.7
Scottish Alliance.....	1893	21,055	12,710	2,079	60.3	....
Scottish Union and National.....	1892	371,901	223,787	338,072	60.1	30.4
St. Columb District Mutual.....	1892	128	55	23	305.5	83.3
State.....	1892	36,663	35,088	20,228	95.9	35.4
Straits.....	1892	37,651	20,846	39,873	55.3	34.0
Sun.....	1892	1,029,326	678,648	1,771,061	65.9	32.6
Union.....	1892	262,523	176,810	363,496	67.3	35.7
Welsh Baptist.....	1893	185	Nil.	.....	Nil.	27.0
Welsh Calvinistic Methodist.....	1893	316	8	1,390	2.5	6.3
Wesleyan Methodist Trust.....	1893	5,847	2,666	48,643	45.6	20.8
West of England.....	1892	103,688	76,719	69,655	74.0	31.6
West of Scotland.....	1892	6,186	2,638	7,259	42.6	35.2
Yorkshire.....	1893	90,196	52,235	246,989	57.9	32.9

SYNOPSIS OF EUROPEAN FIRE INSURANCE BUSINESS IN 1892.

(Compiled from *The Post-Magazine Almanack*, 1894.)

Established.	NAME AND LOCATION OF COMPANY.	Insurance in Force.	Premiums Received.	Losses Paid.	Funds other than Share Capital.
AUSTRIAN FIRE INSURANCE COMPANIES.					
		<i>Florins.</i>	<i>Florins.</i>	<i>Florins.</i>	<i>Florins.</i>
1831	Assicurazione Generali, Trieste.....		6,491,634	3,048,709	7,967,354
1868	Donau, Vienna.....		1,382,774	775,503	1,646,183
1879	Fonciere, Budapest.....		2,084,611	1,560,227	921,218
1860	Phoenix, Vienna.....		4,904,409	2,928,544	1,993,024
1838	Reunione Adriatica, Trieste.....		3,200,487	4,735,550	3,562,745
1858	I. Ungarische Allg., Budapest.....		2,904,204	1,832,359	4,858,707
1879	Ungarisch-Französische, Budapest.....				965,435
1881	Wiener, Vienna.....		1,620,163	1,068,129	892,984
Public Mutual Institutions.					
1827	I. Böhmische, Prague, buildings.....		404,314	245,894	1,511,632
1827	I. Böhmische, Prague, furniture.....		126,034	47,971	575,832
1829	Grazer, Graz, buildings.....		482,586	291,047	1,709,998
1873	Grazer, Graz, furniture.....				
1811	Linzer, Linz, buildings.....		145,189	139,752	730,113
1877	Linzer, Linz, furniture.....		29,627	9,692	203,020
1829	Mährische-Schlesische, Brunn, buildings.....		487,522	338,300	2,903,373
1829	Mährische-Schlesische, Brunn, furniture.....		52,699	47,106	797,035
1865	Prager Stadtische, Prague.....		62,050	10,100	865,000
1811	Salzburger, Salzburg, buildings.....		37,242	22,474	312,924
1882	Salzburger, Salzburg, furniture.....		12,295	448	14,255
1825	Tyroler, Innsbruck, buildings.....				
1875	Tyroler, Innsbruck, furniture.....				
1825	Wiener, Vienna, buildings.....	572,827,455	595,212	205,047	} 3,044,167
1885	Wiener, Vienna, furniture.....	75,539,780	74,019	8,930	
Private Mutual Societies.					
1868	Concordia, Reichenberg.....				334,853
1866	St. Florian, Eger.....		101,688	49,617	273,153
1860	Krakauer Vers. Ges., Krakau.....	501,494,038	2,450,073	1,491,575	3,334,179
1869	Landwirtschaftliche, Prague.....		135,761	91,445	69,715
1869	Slavia, Prague.....		772,471	431,715	809,490
1885	Theilungs Verein, Vienna, buildings.....		550,445	321,400	165,645
1885	Theilungs Verein, Vienna, furniture.....		247,930	76,629	178,379
1869	Transsylvania, Hermannstadt.....	20,194,894	102,216	35,272	401,235
1875	Verein Papier Ind., Prague.....		149,112	40,774	7,290
Reinsurance Companies.					
1872	Allianz, Vienna.....		382,544	303,872	350,922
1873	I. Böhmische Allg., Prague.....		1,589,892	1,166,891	715,391
1887	Lloyd, Budapest.....		1,222,416	1,065,953	435,151
1862	Pannonia, Budapest.....		1,411,748	892,920	1,188,421
1865	Securitas, Vienna.....		996,789	796,511	411,456
....	Ungarische Hagel and Ruck, Budapest.....		177,351	124,101	285,222
1870	Wiener, Vienna.....		1,702,062	1,155,047	1,290,664
BALKAN STATES FIRE INS. COS.					
1891	Bulgaria, Rustschuk.....		89,190	3,587	46,464
1881	Dacia Romania, Bucharest.....	504,139,916	4,646,461	1,261,484	4,007,296
1882	Nationals, Bucharest.....		1,746,313	1,242,132	1,451,808
1891	Nationale, Athens.....		362,226		72,644
BELGIAN FIRE INSURANCE COMPANIES.					
		<i>Francs.</i>	<i>Francs.</i>	<i>Francs.</i>	<i>Francs.</i>
1882	Assurances Belges, Brussels.....				
1830	Assurances Generales, Brussels.....		3,977,252	2,670,990	7,011,665
1855	Belgique, Brussels.....	1,738,136,763	1,743,117	1,029,655	2,700,861
1887	Esperance, Brussels.....		905,787	271,587	(?)
1873	Industriels Reunis, Gand.....		159,273	60,351	856,573
1850	Lloyd Belge, Antwerp.....		2,761,066	1,955,011	1,362,987
1858	Nationale Belge, Brussels.....		474,480	259,315	758,625
1821	Proprietaires Reunis, Brussels.....				
1874	Suceries Reunies, Brussels.....		54,958	3,811	630,483
1824	Union Belge, Brussels.....				
1882	Urbaine Belge, Brussels.....		1,032,847	537,463	290,000

SYNOPSIS OF EUROPEAN FIRE INSURANCE BUSINESS—Continued.

Established.	NAME AND LOCATION OF COMPANY.	Insurance in Force.	Premiums Received.	Losses Paid.	Funds other than Share Capital.
	DUTCH FIRE INSURANCE COMPANIES.	<i>Florins.</i>	<i>Florins.</i>	<i>Florins.</i>	<i>Florins.</i>
1790	Amsterdamsche, Amsterdam.....	.....	.....	.....	.....
1846	Haarlemsche, Haarlem.....	.....	196,000	140,450	311,200
1833	Nederlandsche, Tiel.....	.....	397,658	218,750	980,902
1845	Netherlands, Zutphen.....	.....	271,564	150,821	189,959
.....	Netherlands Reinsurance Co., Zutphen...	.....	118,873	14,462	17,669
1878	Tilburgsche, Tilburg.....	.....	.....	.....	.....
.....	De Amstel, Amsterdam.....	.....	48,196	22,657	.....
1771	Assurantie Comp., Amsterdam.....	.....	.....	.....	404,849
1838	Mij. van Brandv. voor LetKon. Ned., Herzgb	.....	155,983	87,367	151,685
1835	Hague.....	.....	.....	.....	116,455
	SWISS FIRE INSURANCE COMPANIES.	<i>Francs.</i>	<i>Francs.</i>	<i>Francs.</i>	<i>Francs.</i>
1863	Basler, Basel.....	1,276,463,826	2,534,990	1,572,904	2,497,694
1862	Helvetia, St. Gallen.....	.....	3,304,504	1,972,830	5,400,528
1875	Prudentia, Zurich.....	.....	792,568	451,888	195,308
1826	Schweizer Mobiliar, Bern.....	1,500,439,833	1,534,039	1,230,542	3,416,154
1864	Schweizerische Ruck, Zurich.....	1,194,087,392	3,627,229	2,355,995	2,526,172
1808	Canton Zurich, buildings.....	839,781,250	839,790	.....	2,832,318
1806	Canton Bern, buildings.....	722,851,246	1,139,655	.....	375,435
1810	Canton Luzern, buildings.....	187,580,905	224,219	.....	209,281
1884	Canton Nidwalden, buildings.....	14,831,507	20,379	.....	84,651
1812	Canton Glarus, buildings.....	56,335,815	28,863	.....	2,186,110
1812	Canton Zug, buildings.....	43,166,650	17,267	.....	147,742
1812	Canton Freiburg, buildings.....	22,179,403	177,435	.....	468,477
1809	Canton Solothurn, buildings.....	22,035,928	254,733	.....	432,130
1864	Solothurn, mechan. plant.....	832,875	2,401	.....	.....
1807	Bale (Town), buildings.....	59,618,600	145,517	.....	815,952
1833	Bale (Country), buildings.....	85,854,200	60,253	.....	461,589
1812	Schaffhausen, buildings.....	72,709,550	27,946	.....	1,112,871
1841	Appenzell on the Rhine, buildings.....	83,775,100	92,077	.....	3,317,658
1807	St. Gallen, buildings.....	426,897,100	1,070,233	.....	388,555
1805	Aargau, buildings.....	236,631,360	450,370	.....	105,724
1806	Thurgau, buildings.....	167,377,880	188,420	.....	.....
1811	Waadt, buildings.....	585,289,776	616,719	.....	1,559,046
1849	Waadt, furniture.....	340,306,432	313,975	.....	863,287
1810	Neuenburg, buildings.....	98,104,840	213,524	.....	154,466
	GERMAN FIRE INSURANCE COMPANIES.	<i>Marks.</i>	<i>Marks.</i>	<i>Marks.</i>	<i>Marks.</i>
1826	Aachener und Munchener, Aix-la-Chapelle.	5,842,060,281	6,254,882	3,280,970	11,217,544
1876	Aachen-Leipziger, Aix-la-Chapelle.....	.....	831,528	679,588	441,634
1881	Alsatia, Strassburg.....	.....	348,559	219,172	134,655
1838	Bayerische Hyp. Bank, Munic.....	2,106,415,149	2,695,174	1,134,539	2,165,074
1812	Berlinische, Berlin.....	1,419,834,452	1,369,099	752,025	2,018,138
1839	Colonie, Cologne.....	4,007,003,942	3,291,822	1,938,436	10,574,150
1860	Deutsche, Berlin.....	582,894,113	528,423	269,405	1,311,092
1845	Deutscher-Phoenix, Frankfurt-on-Main....	2,580,735,232	2,885,127	1,522,949	4,673,654
1877	Feuer-Assec. Cie. of 1877, Hamburg.....	.....	404,224	268,621	221,669
1862	Gladbacher, M. Gladbach.....	175,025,974	1,354,261	1,053,006	1,193,317
1854	Hamburg-Bremer, Hamburg.....	1,579,448,623	2,751,606	1,883,239	2,100,000
1876	Hamburg-Magdeburger, Hamburg.....	.....	1,459,842	841,809	707,704
1874	Hanseatische, Hamburg.....	350,861,720	651,921	354,421	667,365
1891	Hanseatische Mit. and Ruck, Lubeck.....	.....	.....	.....	.....
1819	Leipziger, Leipzig.....	2,502,521,017	2,233,689	1,128,246	5,956,103
.....	Lubecker, Lubeck.....	.....	.....	.....	.....
1844	Magdeburger, Magdeburg.....	5,750,272,251	13,166,783	9,885,005	10,557,982
1868	Norddeutsche, Hamburg.....	1,402,995,301	1,227,544	1,357,350	1,863,772
1857	Oldenburger, Oldenburg.....	592,762,694	642,984	326,030	1,680,127
1820	Patriotische, Hamburg.....	225,321,400	569,485	352,322	769,970
1866	Preussische, Berlin.....	1,129,205,727	1,521,494	1,047,325	692,113
1845	Preussische National, Stettin.....	4,427,788,080	3,235,865	1,832,042	3,535,965
1856	Providentia, Frankfurt-on-Main.....	.....	1,800,376	968,165	18,029,333
1880	Rheinland, Neuss.....	.....	589,131	451,567	475,170
1881	Rhein und Mosel, Strassburg.....	.....	1,739,363	847,154	1,928,994
1847	Schlesische, Breslau.....	1,920,829,979	1,822,108	1,161,955	4,086,904
1893	Sueddeutsche F. V. Bank, Munic.....	.....	.....	.....	.....
1853	Thuringia, Erfurt.....	1,821,476,272	2,348,794	1,531,208	3,897,964
1872	Transatlantische, Hamburg.....	.....	2,560,016	1,624,189	2,511,719
1873	Union, Allgemeine, Berlin.....	.....	1,003,428	649,874	1,020,000
1822	Vaterlandische, Elberfeld.....	3,755,659,358	3,792,214	2,408,948	7,190,093
1866	Westdeutsche, Essen.....	1,335,002,387	1,039,314	744,414	1,240,656

SYNOPSIS OF EUROPEAN FIRE INSURANCE BUSINESS—Continued.

Established.	NAME AND LOCATION OF COMPANY.	Insurance in Force.	Premiums Received.	Losses Paid.	Funds other than Share Capital.
	GERMAN FIRE INS. COS.—Continued.				
	<i>Private and Government Mutual Companies.</i>	<i>Marks.</i>	<i>Marks.</i>	<i>Marks.</i>	<i>Marks.</i>
1852	Allg. Brandv. Sachs. Lehrer, Dresden.....	36,178,170	3,016	1,786	85,953
1880	Brandv. Ver. Preuss. Forstbeamten, Berlin		51,789	57,427	119,710
1890	Brandv. V. prss. Staats Eisenbn., Berlin ...	145,151,100	92,641	36,611	119,609
1865	Concordia, Hannover.....	144,496,850	222,225	134,209	656,548
1846	Feuerversich. Gesellschaft, Brandenburg..	162,679,251	204,825	137,142	156,750
1830	Feuer-Assecuranz Verein, Altona.....	232,563,302	294,091	140,084	673,514
1891	Feuer V. Deutscher Fabriken, Berlin		48,480	21,929	17,609
1873	Feuerv. Ver. in Mit. Deutschland, Mersebg. .	1,758,320,670	1,755,168	1,738,043	3,946,719
1872	F. V. V. f. Eisnere Landwirthe, Rostock		84,602	6,458	354,443
1833	F. V. V. fur Mecklenburg, Gustrow		243,063	249,536	201,233
1821	Gothaer, Gotha.....	4,523,717,900	6,983,145	2,385,038	17,332,590
1870	Gegenseitigkeit, Oldenburg.....		63,833	41,177	29,190
1841	Greifswalder Greifswald.....	257,469,200	727,768	728,570	723,721
1877	Hannoversche F. V. Bank, Hannover.....	33,147,153	59,983	35,413	58,375
1770	Hersogl. Landes Brand V. A., Gotha.....	230,147,050	345,153	242,740	447,894
1785	Immobilien F. V. A., Arolsen.....	51,620,670	99,384	88,535	320,705
1839	Land Feuer Soci. Herzogth., Merseburg..	860,478,890	1,190,691	1,005,612	4,138,546
1873	Landwirthsch. F. V. Gen., Dresden	371,085,751	441,064	233,288	946,018
.....	Landsch. Brandk. f. Ostfriesland, Aurich ..	63,686,180	.....	11,050	31,304
.....	Landsch. Brandk. f. Ostfriesland, Aurich ..	103,115,260	.....	174,405	38,378
.....	Landes Brandk. Prov., Schleswig-Holstein ..	.....	2,226,871	3,330,258	.....
1826	Lubecker Verein, Lubeck.....	.....	463,164	404,159	268,609
1840	Mobiliar F. V. G., Marienwerder.....	104,588,900	183,413	264,971	947,913
.....	Mobiliar Brandv. Gen., Dresden	3,357,150	2,516	423	18,171
1801	Mecklenbg Brandv. Ges., Neu Brandenbg ..	314,267,200	995,983	975,167	.....
1779	Muhlenbrand Soc., Aurich	2,955,426	.....	667	228,054
1827	Ostfriesische Mobiliar, Norden.....	20,238,255	30,960	20,569	273,212
1839	Provinz. Stadte. Feuer Societ., Merseburg.	802,431,240	1,018,339	712,480	2,267,797
.....	Posensche Prov. Feuer Soc., Posen.....	820,590,400	.....	3,391,410	4,863,536
.....	Prov. Land Feuer Soci., bldgs., Schlesien.	877,810,320	1,204,930	1,411,826	6,144,645
.....	Prov. Land Feuer Soci., fur., Schlesien...	348,910,450	494,596	576,501	.....
.....	Prov. Stadte Feuer Soci., Schlesien.....	337,330,350	219,887	193,803	1,624,297
1851	Rubenzuckerfabriken Verb	50,849,941	79,867	30,199	819,399
1869	Sachsischer Militarver., Zwickau.....	180,244,434	295,065	329,383	181,509
1826	Schwedter, Schwedt-on-O.....	635,124,876	1,773,917	1,573,853	2,997,671
1828	Vaterlandische Societat, Rostock	29,783,090	78,474	20,316	421,230
1828	Wurtembergische Privat, Stuttgart	847,070,000	1,533,333	645,989	925,642
	<i>Fire Reinsurance Companies.</i>				
1853	Aachener, Aix-la-Chapelle.....	.....	1,235,868	1,033,844	1,512,206
1886	Allgemeine Ruck, Hamburg.....	.....	986,282	639,351	614,070
1890	Allianz, Berlin.....	.....	515,580	274,426	271,047
1886	Badische Mit and Ruck, Mannheim.....	.....	1,643,400	1,368,178	565,318
1889	Berlinische, Berlin.....	.....	1,144,341	947,388	568,626
1879	Colonia, Cologne.....	.....	663,705	419,269	831,000
1872	Deutsche Ruck, Frankfurt-on-M.....	.....	1,487,948	1,143,909	596,182
1857	Frankfurter, Frankfurt-on-M.....	.....	602,600	476,984	2,147,094
1870	Frankfurter Allgem., Frankfurt-on-O.....	.....	1,473,835	1,221,854	875,713
1877	Gladbacher, M. Gladbach.....	241,653,506	698,383	496,521	330,989
1868	Hamburg-Bremer, Hamburg.....	.....	1,608,057	1,107,368	1,243,754
1887	Hanseatische Lloyd, Hamburg.....	.....	388,102	282,800	.....
1891	Hanseatische Ruck, Lubeck.....	.....	337,927	349,953	171,610
1846	Kohnische, Cologne.....	.....	4,260,047	3,477,127	4,644,222
1872	Leipziger, Leipzig.....	.....	637,645	519,874	506,000
1862	Magdeburger, Magdeburg.....	.....	3,696,532	2,800,369	3,130,620
1885	Minerva, Cologne.....	.....	1,553,985	1,110,565	1,172,364
1880	Munchener, Munich.....	.....	8,837,032	6,210,646	5,661,774
1881	Norddeutsche, Hamburg.....	.....	865,266	495,037	572,588
1880	Providentia, Frankfurt-on-M.....	.....	220,390	113,937	679,635
1870	Rhein-Westfalische, M. Gladbach.....	.....	1,253,045	921,857	873,880
1879	Stettiner, Stettin.....	.....	508,786	346,099	554,099
1893	Sudddeutsche Ruck, Munich.....	.....	.....	.....	.....
1876	Transatlantische, Hamburg.....	.....	1,350,279	853,970	1,111,578
	ITALIAN FIRE INSURANCE COMPANIES.	<i>Liras.</i>	<i>Liras.</i>	<i>Liras.</i>	<i>Liras.</i>
1833	Compagnia Anonima, Turin .....	.....	1,142,042	816,770	1,244,564
1839	Co-operativa, Milan.....	.....	116,626	63,537	495,653
1879	Fondiaris, Florence.....	.....	2,398,547	1,623,283	2,046,604
1883	Italia, Genoa.....	.....	1,334,988	982,971	800,688
1891	L'Iniziativa, Genoa.....	.....	8,311	115	59,347
1890	Mutuelle de Tigiliole, Tigiliole.....	805,900	1,289	Nil.	3,381
.....	Mutuelle de Parme, Parma.....	.....	143,751	250,173	.....
.....	Provinciale, Milan.....	.....	116,511	15,519	.....

SYNOPSIS OF EUROPEAN FIRE INSURANCE BUSINESS—Continued.

Estab- lished.	NAME AND LOCATION OF COMPANY.	Insurance in Force.	Premiums Received.	Losses Paid.	Funds other than Share Capital.
FRENCH FIRE INSURANCE COMPANIES.					
1857	Abeille, Paris.....	<i>Franks.</i>	<i>Franks.</i>	<i>Franks.</i>	<i>Franks.</i>
1843	Aigle, Paris.....	5,703,376,769	4,202,934	2,155,152	4,758,169
1819	Argus, Paris.....		4,154,508	2,186,325	
1891	Assurances Generales, Paris.....		10,062,910	5,730,911	
1858	Caisse Gener Agricole, Paris *.....		225,426	58,858	74,180
1863	Centrale, Paris.....		456,629	162,189	
1881	Clementine, Paris.....		1,248,592	775,457	389,188
1880	Commerciale, Paris.....	1,138,360,706	1,252,393	792,980	104,733
1844	Confiance, Paris.....		6,143,481	3,984,705	2,082,219
1883	Eternelle, Paris.....		1,080,504	808,820	
1877	Fonciere, Paris.....	5,201,294,506	2,870,863	1,697,123	2,460,350
1837	France, Paris.....	8,146,904,804	6,066,082	3,428,183	7,613,654
1879	Metropole, Paris.....	3,420,431,686	3,389,973	2,046,256	770,493
1864	Monde, Paris.....		2,704,204	1,705,886	1,037,302
1881	Nation, Paris.....		741,284	356,517	
1820	Nationale, Paris.....		8,427,842	3,475,783	
1840	Nord, Paris.....		2,403,315	1,018,236	1,754,082
1875	Ouest, Paris.....		394,479	248,118	190,433
1843	Paternelle, Paris.....	6,663,044,682	4,460,451	1,725,713	5,800,000
1819	Phenix, Paris.....		8,299,736	4,381,726	18,340,790
1838	Providence, Paris.....		3,512,217	1,855,641	
1879	Remoisais, Reims.....	307,960,956	119,556	11,102	
1880	Rouennaise, Paris.....		1,509,176	1,070,878	350,000
1884	Soc. Anonyme de Reassurances, Paris.....				
1829	Soleil, Paris.....	11,612,962,679	8,371,932	4,402,635	
1828	Union, Paris.....	14,316,979,856	11,095,319	6,022,159	7,650,000
1867	Union Generale du Nord, Lille.....		275,341	130,804	
1838	Urbaine, Paris.....	8,098,775,110	6,215,556	3,098,689	5,865,000
RUSSIAN FIRE INSURANCE COMPANIES.					
1881	Baltische, Riga.....	<i>Rubels.</i>	<i>Rubels.</i>	<i>Rubels.</i>	<i>Rubels.</i>
1882	Fennia, Helsingfors.....	53,519,413	429,875	317,232	
1858	Moscovische, Moscow.....		225,854	143,098	625,041
1876	Nadeschda, St. Petersburg.....		914,697	580,728	2,314,783
1872	Nordische, Moscow.....		652,427	533,333	
1891	Tohjola, Helsingfors.....	23,935,442	1,056,844	724,944	1,239,551
1858	St. Petersburg, St. Petersburg.....		127,348	26,834	97,173
1881	Rossija, St. Petersburg.....	219,610,801	925,997	792,178	1,201,343
1891	Rossijanin, St. Petersburg.....				
1827	I Russian, St. Petersburg.....		3,495,057	2,647,124	3,747,264
1835	II Russian, St. Petersburg.....		831,993	601,998	
1867	III Russian, St. Petersburg.....		1,148,078	813,039	788,096
1846	Salamander, St. Petersburg.....				
1870	Warschauer, Warsaw.....		852,856	597,568	1,084,479
1871	Wolga, Nischni Novgorod.....		349,027	187,371	491,535
1890	Sagegarenes, Helsingfors.....	1,061,583	6,673	289	14,372
SCANDINAVIAN FIRE INSURANCE COS.					
1883	Allm. Brandsfors. verket bygnader pa landet, Stockholm.....	<i>Kronen.</i>	<i>Kronen.</i>	<i>Kronen.</i>	<i>Kronen.</i>
1866	Bergens (Nye Bergen), Bergen.....	93,518,320	396,090	130,087	8,234,446
1873	Danmark, Copenhagen.....	33,413,313	142,127	168,944	577,706
1889	Fenix, Stockholm.....	437,080,374	547,167	241,479	1,092,701
1798	Kgl. Octroi Almindelige, Copenhagen.....	118,217,234	326,508	172,447	381,009
1887	Kgl. Octroi Almindelige, Copenhagen.....	246,166,600	333,978	106,480	
1731	Kjobenhavns Brandf., Copenhagen.....	8,348,700	16,278	727	1,425,134
.....	Mell. Sveriges varufors. bol.....	62,314,788	63,804	106,504	6,015,725
1867	Norden, Christiania.....	10,431,550	40,783	17,977	73,625
1857	Norge, Drammen.....	52,495,989	161,549	205,440	473,157
1889	Norriand, Sundsvall.....	39,553,275	194,967	447,689	414,021
1838	Norske (Gamle Bergen), Bergen.....	74,416,000	364,218	175,469	168,600
1864	Nye Danske, Copenhagen.....	16,959,856	86,600	174,505	194,015
1855	Skandia, Stockholm.....	176,724,184	444,156	302,445	1,054,025
1884	Skane, Malmoe.....	644,035,294	1,269,239	851,206	3,748,339
.....	Skanska brandf. inrattnng.....	170,416,786	582,726	432,311	805,591
.....	Skanska stad. brandstodsf.....	106,279,164	138,166	224,688	9,938,788
1889	Skjold, Christiania.....	37,590,745	72,882	198,365	1,986,160
1876	Stavanger, Stavanger.....	16,728,500	42,393	14,026	10,000
1842	Stadernas Losorebolag, Jenkoping.....	14,747,000	72,391	154,736	110,838
1828	Stadernas Allmanns, Stockholm.....	60,334,410	216,932	24,600	516,356
1746	Stockh. stads brandf. Rontor, Stockholm.....	260,589,734	1,615,939	98,142	2,047,758
1844	Stockh. Losorebolag, Stockholm.....	314,519,678	105,241	22,726	10,618,443
1847	Storebrand, Christiania.....	93,291,900	68,737	13,052	1,997,234
1866	Svea, Gothenburg.....	73,090,250	205,107	240,535	895,230
1862	Throndhjems, Throndhjem.....	1,444,720,128	2,932,843	2,185,882	3,386,234
1888	Tor, Stockholm.....	14,645,478	85,152	156,498	522,769
1880	Vesta, Bergen.....	48,947,758	254,818	138,800	154,819
		16,409,680	76,960	135,644	270,068

INSURANCE IN FOREIGN COUNTRIES.

ARGENTINE REPUBLIC.

The consul for Switzerland reports that twelve English, two German, one French and about ten home companies are in operation in the Argentine Republic. Foreign companies are divided into three classes: Companies of the first class pay \$10,000 for the privilege of doing business and deposit \$100,000 with the government; those of the second class pay \$7000 for license and deposit \$70,000; and those of the third pay \$5000 and deposit \$50,000. A tax of seven per cent on gross receipts is also exacted. Fire premiums on buildings are one and one-half per cent; on goods in warehouse, three-eighth per cent; on goods in bonded warehouse, one and one-half per cent; and on extra hazardous risks, three per cent. For the last few years the fire insurance business has not been quite as good as previously, but by reason of the prevailing style of building and the excellence of the firemen's organization, fire companies are still doing very well.—*Neumann's Zeitschrift*.

BERMUDA.

Below will be found a partial list of companies represented in Bermuda: Lloyds, London; Liverpool; Paris Lloyds; Havre Marine Underwriters; Marine Underwriters, Trieste and Genoa, by Nath. A. Butterfield; Liverpool and London and Globe, by J. H. Trimingham & Sons; Royal; Yarmouth (N. S.) Underwriters; Boston Underwriters; Halifax Underwriters; Nova Scotia Marine Insurance Association; Joint Underwriters Union of Amsterdam, by John S. Darrell; Sun, London, by M. Wainwright; North British and Mercantile; Western Assurance, by J. Cox Watlington.

CHILE.

The laws of Chile do not require insurance companies to publish reports.

COREA.

The following companies operate in Corea, viz.: Straits Fire of Singapore, Morse, Townsend & Co., sub-agents; Imperial of London, Transatlantic of Hamburg, Prussian National of Stettin, Meyer & Co., agents, Kingitao. The business is small, being confined to the property of foreigners and a few stores.

CUBA.

Companies operating in Havana are not obliged to make any returns, and decline to do so.

ECUADOR.

The Compania Nacional de Seguros contras Yncendiary de Guayaquil, established 1886, has about 2,000,000 sucres (sucre = about seventy cents) in force; annual premiums, about 70,000 sucres; annual losses, about 46,000 sucres. The British and Foreign Marine, the Lancashire and the North British and Mercantile also operate in Guayaquil. P. M. Perez Quinones, lawyer, Quito.

EGYPT.

There are no Egyptian fire or marine insurance companies. The following companies are represented in Egypt by agents: Of London—Alliance, Commercial Union, Economic, Albion Fire Insurance Association, General Fire and Life, Imperial, London Assurance, Northern, North British and Mercantile, Phoenix, Sun, Union Assurance, Guardian; Caledonian of Edinburgh, Lancashire of Manchester, Liverpool and London and Globe of Liverpool, London and Lancashire of Liverpool, Manchester of Manchester, Norwich Union of Norwich, Royal of Liverpool, Assicurazioni Generali of Trieste, Confiance, L'Eternelle, La Fonciere, La Fonciere de France et des Colonies, La Fondiaria, Hamburg-Bremen, Hamburg-Magdeburg, Helvetia of St. Gall, Riunione Adriatica di Sicurtà, Monde, La National, National, Netherlands, Nord, Phoenix, Prima Societa Ungherese, L'Urbaine, L'Union, North German, Magdeburg, Transatlantic, British and Foreign of Liverpool, Marine Insurance of London, Maritime Insurance of Liverpool, Sea Insurance of Liverpool, Standard Marine of London, Thames-Mersey Marine of London, Union Insurance Society of Canton, Hong Kong; Union Marine of London, Lloyds, Assurances Maritimes, La Badoise Maritimes, La Badoise Transport, Compagnie Generale, Deutsche Transport, Berlin; Federal, France Maritime, Italia, Mannheim, Nord Deutsch, Suisse, Wurtembergoise. James Hewat, insurance agent, Alexandria.

GREECE.

The following companies did business in Greece in 1892 :

NAME AND LOCATION.	Capital.	Manager or Director.	Classes of Business.
	<i>Drachmas.*</i>		
Adriatic, Trieste.....	125,000,000	M. A. Lampros, Athens....	F., L., Mar., Gl. Acc.
National, Athens.....	8,000,000	S. Streit.....	Fire, Marine, Life.
Union, Paris.....	† frs. 2,500,000	D. G. Makkas, Athens....	Fire, Marine.
Confidence, France.....		Mr. Agelastos, Athens....	Fire, Marine.
Commercial Union, London.....	† £250,000	Stephanos & Empedokles, Athens.....	Fire.
London and Lancashire, Liverpool....	† £212,750	I. Panas, Athens.....	Fire.
Sun, London.....		Wm. So, Athens.....	Fire.
Phoenix, London.....	† £71,918	Hill & Barff, Athens.....	Fire.
Phoenix, Athens.....		Mr. Malikopoulos.....	Fire, Marine.
Mannheim, Germany.....		Theologes & Co., Athens....	Marine.
General, Trieste.....	130,000,000	D. Bruzakes, Athens.....	F., L., M., Trans.
North British and Mercantile, London.	† £437,500	Pericles & Grypares, Athens.	Fire.
North German, Hamburg.....	† 1,500,000 <i>ms.</i>	Baumann & Bekman, Athens	Fire, Transatlantic.
Italia, Genoa.....	† 800,000 <i>dr.</i>	G. B. Kozadinos, Athens...	Marine.

* Drachma = 19.8 cents. † Paid-up.

INDIA.

There are upwards of 160 insurance companies operating in India, but information concerning them is extremely difficult, almost impossible, to obtain.

JAPAN.

The following insurance companies are operating in Japan :

Name and Location.	Agent.	Address.	Name and Location.	Agent.	Address.
Palatine, Manchester; H. C. Morf & Co., Yokohama.			Sun, London; Robison & Co., Yokohama.		
Helvetia Marine, St. Gall; Siber, Brennwald & Co., Yokohama.			Netherlands Fire; M. Raspe & Co., Yokohama.		
Helvetia Swiss Fire, St. Gall; Siber, Brennwald & Co., Yokohama.			North British and Mercantile, London; Findlay, Richardson & Co., Yokohama.		
Hamburg-Magdeburg, Hamburg; Siber, Brennwald & Co., Yokohama.			London Assurance Corporation; H. Ahrens & Co., Yokohama.		
Hong Kong Fire; Jardine, Matheson & Co., Yokohama.			Northern, London; W. M. Strachan & Co., Yokohama.		
Second Colonial Sea and Fire, Batavia; J. Ph. Von Hemert, Yokohama.			Oriental, Tokio.		
Union, Canton; C. W. Baird, Yokohama.			Meiji Fire, Tokio.		
			Tokio Fire, Tokio.		
			Goods and Chattels Fire, Tokio.		
			Tokio Marine, Tokio.		

PERU.

There are no Peruvian insurance companies. The following British companies are represented in Lima : Sun, Royal, Liverpool and London and Globe, Guardian, Phoenix, North British and Mercantile, Northern, Queen, Commercial Union, London and Lancashire, Norwich Union, Manchester, Economic, Lion, and Scottish Union and National. Also the Helvetia of St. Gall, Switzerland, and these German companies : Hamburg-Magdeburg, Hanseatic, North Prussian, and Hamburg-Bremen. Geo. Elstee, insurance agent, Lima.

SIAM.

There are no Siamese insurance companies. The following London companies are represented at Bangkok : Commercial Union, by Clarke & Co. (annual premiums, \$4600; amount in force, \$266,000); North British and Mercantile, Imperial, and Yang-Tsze (Marine), by Bombay Burmah Trading Corporation, Limited; China Fire, by Windsor & Co.; Hamburg-Bremen Fire, Netherlands Fire, and Hamburg-Magdeburg Fire, by A. W. Schmidt.

TURKEY.

The Societe Generale d'Assurance Ottomane was recently organized at Constantinople.

COMPARATIVE EXHIBIT OF FIRE INSURANCE PREMIUMS IN NEW YORK CITY.

Below we present a table showing the premiums collected in New York city for seven years, as compiled from the semi-annual returns of the fire patrol to the New York Board of Fire Underwriters:

NAME AND LOCATION OF COMPANY.	1888.	1889.	1890.	1891.	1892.	1893.	1894.
NEW YORK STATE.	\$	\$	\$	\$	\$	\$	\$
Agricultural, Watertown.....	23,340	24,389	28	84	89	322	987
Albany, Albany.....	12,726	9,116					* 2,251
Alliance, New York.....			61,756	59,499	70,897	79,680	58,194
American, New York.....	127,530	117,540	91,126	57,043	83,342	92,401	85,716
American Exchange, New York.....							5,299
American Lloyds, New York.....	34,808	28,208	14,031	* 5,298			
Armstrong, New York.....			* 34,101	54,552	48,611		
Assurance Lloyds, New York.....	60,541						
Broadway, New York.....	67,914	57,849	40,948	25,929	25,578	28,965	30,629
Brooklyn, Brooklyn.....							* 17,991
Buffalo German, Buffalo.....	17,306	16,219		25,987	17,806	15,842	13,498
Citizens, New York.....	82,846	86,127	85,089	95,475	100,813	106,782	79,651
City, New York.....			75	10,682	12,693	20,344	18,755
Clinton, New York.....							22,600
Columbia Lloyds, New York.....	* 17,608						
Commerce, Albany.....	18,393	20,454	8,845	6,643	5,876	5,483	6,015
Commercial Lloyds, New York.....	29,875						
Commonwealth, New York.....	38,699	42,346	36,517	43,758	44,750	24,856	46,010
Continental, New York.....	160,953	133,951	104,367	113,505	113,501	111,687	106,433
Dutchess Co. Mut., Poughkeepsie.....	19,104	* 7,427	18,224	16,697	12,201	4,818	
Eagle, New York.....	43,779	43,031	41,253	35,549	42,716	47,752	46,897
Empire City, New York.....	20,765	18,720	15,641	14,220	13,830	17,493	15,134
Empire State, Rochester.....			5,444	10,608	9,075	6,928	
Equitable Lloyds, New York.....	22,108	17,915					
Exchange, New York.....		121,620	26,205	29,691	27,599	28,304	28,822
Farragut, New York.....	24,939	19,019	18,007	16,706	20,124	20,244	19,992
Fire Association, New York.....			* 36,447	70,437	71,267	65,064	29,284
Firemens, New York.....				7,581	12,858	16,477	17,545
German-American, New York.....	363,405	327,059	326,394	298,273	304,885	389,588	293,010
Germania, New York.....	98,554	96,847	87,241	90,364	88,331	88,131	106,846
Glens Falls, Glens Falls.....	18,736	18,903	14,682	16,281	17,077	18,769	21,814
Globe, New York.....	54,616	* 35,466	60,260	61,299	50,062	57,399	53,102
Greenwich, New York.....	224,537	239,874	290,809	264,512	257,615	251,345	163,870
Guardian, New York.....				12,522	15,630	16,318	18,173
Hamilton, New York.....	48,030	39,759	31,867	30,862	30,770	37,866	40,894
Hanover, New York.....	80,426	79,700	79,424	78,903	78,043	87,066	86,000
Home, New York.....	296,299	246,684	211,902	170,389	206,037	259,615	164,141
Howard, New York.....						* 10,847	40,754
Individual Underwriters, New York.....	51,591	52,093	35,263	34,446	36,688	35,793	31,745
Jefferson, New York.....			973	19,137	18,803	19,702	15,678
Kings County, Brooklyn.....	19,652	18,493	14,533	13,024	13,572	14,102	14,419
Knickerbocker, New York.....			406	* 16,327	17,398	19,944	19,908
Lafayette, Brooklyn.....			20,193	10,229	10,555	14,891	17,253
Liberty, New York.....			* 31,490	49,823	52,238	70,224	41,396
Long Island, Brooklyn.....					17,338	20,239	17,408
Manhattan Mutual, Goshen.....				* 1,207	* 1,719		
Manufacturers and Builders, New York.....	68,294	78,857	66,192	41,612	41,435	47,927	45,136
Manufacturers Lloyds, New York.....	46,606						
Mechanics, Brooklyn.....							29,727
Mercantile, New York.....						* 6,116	10,645
Mercantile Lloyds, New York.....	* 15,071						
Merchants, New York.....							30,445
Merchants-Lloyds, New York.....	75,918	44,044	24,867	12,612	6,704		
Montauk, Brooklyn.....							29,806
Mutual, New York.....	127,018	113,083	* 50,971	131,004	144,100	107,590	90,128
Mutual Lloyds, New York.....	40,806						
Nassau, Brooklyn.....	9,302	9,736	9,087	10,018	11,123	12,561	15,070
National, New York.....			29,973	27,660	24,472	34,962	39,360
New York Bowery, New York.....	44,420	33,854	* 24,201	41,466	65,382	107,514	84,067
New York Cent. Lloyds, Little Falls.....	33,670						
New York Co. Co-operative, N. Y.....	* 4,239	* 3,046					
New York Equitable, New York.....					* 6,313	20,434	19,221
New York Fire, New York.....	17,605	11,015	* 1,085	22,426	18,033	26,351	25,974
New York Fire Lloyds, N. Y.....	4,957	4,057					

* Six months only.

† Retired from business.

COMPARATIVE EXHIBIT OF FIRE INSURANCE PREMIUMS—*Continued.*

NAME AND LOCATION OF COMPANY.	1882.	1883.	1884.	1885.	1886.	1887.
NEW YORK STATE—Cont.	\$	\$	\$	\$	\$	\$
New York Reciprocal Underwriters	4,001	.....	.....	.....	.....	.....
Niagara, New York	174,515	187,745	206,238	183,866	157,043	150,543
North American Lloyds, New York	6,609	.....	.....	.....	.....	212,922
North River, New York	103,627	93,471	52,868	49,329	47,801	41,110
Pacific, New York	50,512	48,190	41,862	45,540	42,888	50,489
Park, New York †	.....	.....	* 1,234	31,040	33,436	29,631
Peoples, New York †	.....	.....	* 4,987	29,306	31,241	31,782
Peter Cooper, New York	17,062	13,951	19,284	22,471	20,713	20,455
Phenix, Brooklyn	154,603	232,502	167,630	167,280	152,976	159,775
Prudential, New York †	.....	.....	.....	10,233	27,225	37,431
Queen of America, New York	94,592	72,909	* 12,905	.....	.....	.....
Rochester German, Rochester	25,409	* 8,098	.....	.....	.....	* 4,574
Royal Co-operative, New York	* 209	.....	.....	.....	.....	.....
Rutgers, New York	24,718	21,140	21,576	23,619	21,229	19,701
Standard, New York †	.....	.....	4,903	8,125	10,804	11,936
Sterling, New York †	.....	.....	.....	.....	.....	14,902
Stuyvesant, New York	40,150	38,072	33,003	29,773	31,558	33,249
United States, New York	38,629	37,584	26,482	25,565	27,131	29,510
Westchester, New York	55,150	50,821	70,700	42,845	63,318	96,931
Williamsburgh City, Brooklyn	87,877	89,399	67,029	69,908	79,013	80,574
CALIFORNIA.						
Anglo-Nevada, San Francisco †	.....	.....	.....	37,219	27,564	30,078
California, San Francisco	.....	.....	12,247	13,471	9,951	13,006
Commercial, San Francisco †	.....	.....	* 13,393	25,159	15,724	15,003
Firemans Fund, San Francisco	89,416	64,860	42,592	39,737	34,316	26,014
Home Mutual, San Francisco	.....	.....	8,545	7,469	.....	* 4,126
State Investment, San Francisco	.....	40,655	* 36,673	22,686	.....	.....
Sun, San Francisco	.....	.....	.....	5,959	4,920	3,027
Union, San Francisco	.....	* 38,902	37,007	30,934	29,152	28,575
COLORADO.						
Denver, Denver †	.....	.....	5,453	5,997	* 2,286	.....
CONNECTICUT.						
Ætna, Hartford	88,799	78,769	50,732	50,065	55,787	54,674
Connecticut, Hartford	49,074	43,482	26,252	30,342	39,251	43,304
Hartford, Hartford	123,499	76,298	73,575	74,419	65,383	28,732
Meriden, Meriden †	.....	.....	.....	17,746	14,384	13,517
National, Hartford	74,753	71,256	* 29,910	.....	.....	.....
Orient, Hartford	62,006	54,734	44,933	43,081	38,349	29,270
Phoenix, Hartford	101,813	87,717	42,503	37,761	38,138	24,188
Security, New Haven	35,397	30,628	20,703	17,245	14,674	11,390
GEORGIA.						
Atlanta Home, Atlanta	11,118	.....	.....	.....	.....	.....
ILLINOIS.						
Packers & Prov. Dealers, Chicago †	.....	.....	* 1,451	10,388	13,289	12,416
Traders, Chicago	.....	.....	.....	.....	.....	* 8,001
IOWA.						
Burlington, Burlington †	33,333	* 5,870	.....	.....	.....	.....
KENTUCKY.						
Columbian, Louisville	63,512	.....	.....	.....	.....	.....
Falls City, Louisville †	.....	.....	.....	.....	.....	* 2,861
Louisville Underwriters, Louisville	.....	.....	.....	.....	.....	* 3,777
LOUISIANA.						
Factors and Traders, New Orleans †	.....	.....	.....	.....	.....	12,082
Mechs. & Traders, New Orleans	21,532	17,726	14,136	10,358	.....	7,092
Sun Mutual, New Orleans	.....	.....	* 6,935	14,936	11,768	9,441
Teutonia, New Orleans	20,265	16,638	21,526	13,622	10,582	9,749
MARYLAND.						
Firemens, Baltimore	44,875	.....	.....	18,564	19,573	17,688
MASSACHUSETTS.						
American, Boston	20,565	16,291	13,298	6,601	11,413	16,197
Boylston, Boston	18,768	17,179	13,609	14,328	16,045	16,587
Eliot, Boston †	.....	.....	11,099	15,582	15,458	14,053

* Six months only.

† Retired from business.

COMPARATIVE EXHIBIT OF FIRE INSURANCE PREMIUMS—Continued.

NAME AND LOCATION OF COMPANY.	1903.	1902.	1901.	1900.	1899.	1898.	1897.
MASSACHUSETTS—Cont.	\$	\$	\$	\$	\$	\$	\$
Firemens, Boston.....	13,962	13,400	11,645	10,728	12,640	13,152	11,168
First National, Worcester.....	12,767	*5,714	.....	.....	.....	.....	.....
Mercantile, Boston.....	17,336	14,770	9,861	.....	7,960	11,765	9,543
Neptune F. and M., Boston†.....	.....	.....	22,402	21,044	15,142	12,084	10,558
North American, Boston.....	31,320	27,329	23,013	21,381	17,528	13,684	10,558
Prescott, Boston†.....	.....	.....	.....	.....	.....	*6,364	10,558
Prudential, Boston†.....	.....	.....	37,664	21,845	.....	.....	.....
Springfield F. and M., Springfield.....	38,224	46,805	32,800	33,371	35,876	21,459	18,509
Washington, Boston†.....	.....	.....	.....	.....	.....	.....	25,251
MICHIGAN.							
Detroit F. and M., Detroit.....	15,061	12,443	8,057	8,176	7,420	6,617	6,799
Grand Rapids, Grand Rapids.....	15,512	14,941	11,565	10,953	10,366	9,376	6,426
Michigan, Detroit.....	17,912	17,050	13,740	12,349	12,403	12,502	6,691
MINNESOTA.							
St. Paul F. and M., St. Paul.....	30,050	21,579	15,718	14,556	13,267	12,904	12,552
St. Paul German, St. Paul.....	.....	.....	44,036	*7,787	.....	.....	.....
Syndicate, Minneapolis†.....	.....	*9,967	14,327	10,776	7,335	.....	.....
MISSOURI.							
American Central, St. Louis.....	31,120	30,509	20,022	10,471	7,661	13,335	12,581
Citizens, St. Louis.....	12,751	10,184	8,216	12,025	10,698	10,128	9,453
Marine, St. Louis†.....	.....	.....	9,812	8,680	4,991	4,040	5,176
NEW HAMPSHIRE.							
Capital, Concord.....	41,151	.....	.....	.....	.....	.....	.....
Granite State, Portsmouth.....	.....	.....	.....	.....	.....	.....	7,751
New Hampshire, Manchester.....	18,980	17,808	20,163	32,625	20,549	17,606	14,467
Peoples, Manchester†.....	21,178	23,616	14,098	13,455	11,781	12,590	9,177
NEW JERSEY.							
American, Newark.....	40,914	45,453	28,400	18,669	18,944	17,330	13,524
Firemens, Newark.....	40,914	45,453	28,400	18,669	18,944	17,304	15,160
Jersey City, Jersey City†.....	.....	*1,105	5,041	4,997	4,430	5,775	4,775
Merchants, Newark.....	44,880	48,224	35,497	34,739	34,792	35,557	24,494
Newark, Newark.....	25,032	26,069	22,336	22,264	26,387	27,187	17,609
OHIO.							
Amazon, Cincinnati.....	.....	.....	.....	.....	.....	.....	10,102
Citizens, Cincinnati.....	.....	.....	.....	.....	*5,318	26,358	18,471
Fidelity F. and M., Cincinnati†.....	.....	.....	.....	.....	*5,490	*6,451	11,935
Firemens, Dayton.....	.....	.....	.....	.....	.....	.....	*3,767
Franklin, Columbus†.....	.....	.....	.....	8,905	9,446	5,054	5,449
Mercantile, Cleveland†.....	.....	.....	.....	*2,467	7,743	5,451	6,278
PENNSYLVANIA.							
Allemania, Pittsburgh.....	25,601	*7,530	.....	.....	.....	.....	.....
American, Philadelphia.....	54,307	50,547	45,126	*43,266	40,970	43,597	34,279
Armenia, Pittsburgh.....	.....	*4,576	13,781	13,698	11,791	7,486	5,864
Boatmens, Pittsburgh.....	.....	.....	*6,932	7,169	*8,016	20,929	13,865
Citizens, Pittsburgh.....	30,220	27,275	21,620	18,795	16,320	12,003	14,251
Delaware, Philadelphia.....	30,930	*17,026	.....	.....	.....	.....	.....
Farmers Mutual, York.....	16,511	14,803	9,805	9,345	5,464	*2,222	4,598
Fire Association, Philadelphia.....	80,667	78,876	68,442	64,650	65,127	57,042	43,186
Fire Ins. Co. County of Phila., Phila.....	30,201	18,568	14,784	20,528	15,456	13,125	16,354
Franklin, Philadelphia.....	16,866	15,743	16,447	17,007	12,772	12,546	10,433
German, Pittsburgh.....	34,549	30,982	23,791	20,340	15,382	*5,750	13,025
Girard, Philadelphia.....	9,122	9,329	6,553	6,411	5,930	5,823	7,718
Ins. Co. of North America, Phila.....	116,250	117,992	94,144	96,940	92,239	87,097	73,207
Ins. Co. of State of Pa., Phila.....	24,775	31,145	26,566	30,087	26,889	26,630	17,526
Lumbermens, Philadelphia.....	35,212	25,777	.....	.....	.....	.....	.....
Manufacturers and Merchants, Pitts.....	37,080	29,183	21,827	19,063	14,778	11,872	11,857
Mechanics, Philadelphia.....	39,281	35,011	31,381	27,773	27,990	20,927	18,891
Pennsylvania, Philadelphia.....	120,192	55,943	29,570	29,531	29,119	*14,251	26,720
Pennsylvania, Pittsburgh.....	.....	.....	.....	.....	.....	.....	11,989
Peoples, Pittsburgh.....	.....	.....	*12,436	14,020	15,126	19,429	12,533
Reading, Reading.....	33,371	29,437	17,118	15,854	15,353	14,805	10,585
Reliance, Philadelphia.....	46,166	37,450	33,047	33,691	32,739	24,524	17,887
Spring Garden, Philadelphia.....	44,006	39,704	34,114	21,710	18,923	16,854	18,466
Union, Philadelphia.....	40,358	33,009	28,726	*5,710	.....	.....	.....
United Firemens, Philadelphia.....	39,121	32,724	28,828	25,623	25,466	22,560	17,365
Western, Pittsburgh.....	21,143	18,971	17,275	17,628	18,423	19,382	15,104

* Six months only.

† Retired from business.

‡ Now the Minnesota.

COMPARATIVE EXHIBIT OF FIRE INSURANCE PREMIUMS—Continued.

NAME AND LOCATION OF COMPANY.	1893.	1892.	1891.	1890.	1889.	1888.	1887.
RHODE ISLAND.	\$	\$	\$	\$	\$	\$	\$
Atlantic, Providence†.....	.....	.....	.....	.....	*1,045	2,360	3,645
Equitable, Providence.....	23,067	18,342	17,436	17,601	18,706	14,839	12,187
Merchants, Providence.....	21,243	18,728	16,332	16,782	18,250	14,386	11,464
Providence-Washington, Prov.....	27,980	30,900	23,879	28,634	33,311	36,131	24,128
WISCONSIN.							
Concordia, Milwaukee.....	13,852	*5,587	.....	.....	17,226	25,478	10,700
Hekla, Madison†.....	.....	.....	.....	*5,428	13,661	11,679	*5,771
Milwaukee Mechanics, Milwaukee..	16,861	16,070	11,524	11,001	10,313	9,338	10,529
Northwestern National, Milwaukee.	11,809	8,970	8,311	8,333	11,055	8,151	4,687
CANADA.							
British America, Toronto.....	39,425	24,229	16,557	14,485	13,636	14,022	19,613
Western, Toronto.....	159,021	100,695	31,108	27,526	25,032	25,785	22,786
GERMANY.							
Hamburg-Bremen, Hamburg.....	78,585	69,531	58,601	56,096	63,519	69,821	53,827
Prussian National, Stettin.....	39,709	29,303	*3,995	.....	.....	.....	.....
Transatlantic, Hamburg.....	28,093	24,475	20,869	19,546	20,069	18,303	17,537
GREAT BRITAIN.							
City of London, London†.....	.....	73,856	56,950	51,225	47,309	48,518	40,465
Caledonian, Edinburgh.....	96,684	.....	52,732	*9,635	.....	.....	.....
Commercial Union, London.....	176,854	177,231	193,727	208,645	196,935	192,800	127,037
Fire Association, London†.....	.....	.....	.....	.....	.....	*10,616	35,810
Guardian, London.....	89,918	85,921	99,309	85,423	89,177	98,761	69,536
Imperial, London.....	102,939	140,112	147,565	102,819	92,891	87,255	77,837
Lancashire, Manchester.....	116,324	190,005	270,142	160,889	149,071	154,230	100,061
Lion, London.....	57,262	95,474	84,911	65,686	65,110	52,044	21,793
Liverpool & London & Globe, Liv.	450,442	439,026	443,673	377,970	387,253	380,755	333,750
London Assurance Corp., London.	103,282	85,613	90,546	88,510	85,001	80,986	54,708
London and Lancashire, Liverpool.	191,768	169,809	147,574	152,842	113,400	99,524	69,107
Manchester, Manchester.....	53,897	44,142	26,696	*7,171	.....	.....	.....
North British and Mercantile, Lon.	94,928	100,526	99,949	98,600	85,024	96,751	60,846
Northern, London.....	61,317	66,918	61,321	66,266	53,106	57,612	60,704
Norwich Union, Norwich.....	96,095	86,143	74,018	62,296	59,120	61,867	49,675
Palatine, Manchester.....	130,090	*4,845	.....	.....	.....	.....	.....
Phoenix, London.....	193,533	156,102	97,727	85,731	89,238	90,420	88,211
Queen, Liverpool†.....	.....	.....	51,020	62,437	61,997	61,446	50,397
Royal, Liverpool.....	325,495	305,215	261,889	282,881	253,113	248,821	165,837
Scottish Union and National, Edin.	194,693	187,755	137,397	91,061	52,088	54,220	47,048
Sun, London.....	144,878	124,580	114,418	108,335	101,079	96,945	55,542
Union, London.....	41,126	29,804	19,537	.....	.....	.....	.....
Total New York State Cos....	3,444,639	3,128,611	2,780,618	2,921,996	3,014,325	3,130,057	3,011,251
Total Cos. of Other States.....	2,369,933	1,953,896	1,644,070	1,570,546	1,452,978	1,354,303	1,213,607
Total Foreign Companies.....	3,066,358	2,811,310	2,663,131	2,286,074	2,103,168	2,101,502	1,622,127
Aggregate.....	8,880,930	7,893,817	7,087,819	6,778,616	6,570,471	6,585,864	5,846,985

* Six months only.

† Retired from business.

FIRE INSURANCE COMPANIES THAT HAVE FAILED OR RETIRED.

The following is a list of joint-stock fire and marine insurance companies and mutual companies of the United States that have failed or reinsured :

When Retired.	NAME OF COMPANY.
1885—	Acme, Des Moines; reinsured in State, Des Moines.
.....	Acton Mutual Fire, Acton.
.....	Adams Fire and Marine, West Virginia; retired.
1857—	Adams Mutual Fire, Adams.
1879—	Adriatic, New York; reinsured in London and Lancashire.
1874—	Advance, Philadelphia; reinsured.
1874—	Etna, Chicago; failed.
1883—	Etna, Denver; retired.
1879—	Etna, New York; reinsured in Home, New York.
1871—	Etna, New York; failed by Chicago fire.
1888—	Etna Fire and Marine, Wheeling, W. Va.; reinsured in Providence-Washington.
1893—	Etna Mutual, Concord, N. H.; failed.
1852—	Agawam Mutual Fire, Ipswich.
1887—	Alabama, Mobile; failed.
1871—	Albany City, Albany; failed by Chicago fire.
1877—	Albemarle, Charlottesville; reinsured in Granite of Virginia.
1874—	Allemanina, Cleveland; failed.
1880—	Alliance, Boston; reinsured in Reinsurance Generales.
1874—	Alliance, New York; failed by Chicago fire.
1881—	Alliance Mutual, Reading; failed.
1892—	Alliance, New York; reinsured in Phenix, Brooklyn, and resumed business; reinsured in United Fire, Manchester, England.
.....	Alton Mutual Insurance and Savings, Alton; failed.
1874—	Alps, Erie; failed.
1891—	Alta, Stockton; reinsured in Connecticut, Hartford.
1891—	Amazon, Cincinnati; reinsured in Royal, Liverpool.
1883—	American, Chicago; reinsured in Home, New York.
1878—	American, Cincinnati, failed.
1893—	American, New Orleans; retired.
1871—	American, Providence; failed by Chicago fire.
1892—	American, Wheeling; reinsured in Phoenix, London and Citizens, Toledo.
1887—	American Exchange, New York; reinsured in German-American.
1893—	American Manufacturers Mutual, Concord, N. H.; failed.
1890—	American Mutual, Cleveland; wound up.
1889—	American Mutual, Michigan City, Ind.; failed.
1874—	American Mutual, New Orleans; failed.
1888—	American Mutual, St. Louis; reinsured.
1890—	American Mutual, South Bend, Ind.; failed.
1876—	American Underwriters, Philadelphia; failed.
1879—	Amity, New York; reinsured in Star, New York.
1889—	Amoskeag, Manchester; reinsured in Peoples, Manchester, N. H.
1894—	Anchor, London; failed.
1861—	Anchor (Marine), New York.
1872—	Anchor, St. Louis; failed.
1872—	Andes, Cincinnati; failed by Chicago fire.
1886—	Anglo-American, Washington, D. C.; failed.
1890—	Anglo-Nevada, San Francisco; reinsured in Caledonian of Edinburgh and London and Lancashire.
1878—	Anthraxite, Philadelphia; reinsured in Sun, Philadelphia.
1877—	Arctic, New York; reinsured in Imperial.
1883—	Argentine, Denver and Indianapolis; failed.
1864—	Arkansas Home, Little Rock; retired.
1889—	Arkansas Valley Mutual, Wichita, Kan.; retired.

When Retired.	NAME OF COMPANY.
1889—	Arlington, Memphis; reinsured in Milwaukee Mechanics, Milwaukee.
1891—	Armstrong, New York; reinsured in Lancashire, Manchester.
1860—	Artisans, New York; reinsured in Commonwealth of New York.
1891—	Associated Manufacturers Mutual, Moline, Ill.; retired.
1871—	Astor, New York; failed by Chicago fire.
1889—	Atlantic F. & M., Providence; reinsured in National of Hartford.
.....	Atlantic F. & M., Provincetown; retired.
1881—	Atlas, Hartford; wound up.
1886—	Anglo-American, Washington; failed.
1887—	Alabama, Mobile; failed.
1841—	Atlas, Boston.
.....	Atlas, Missouri; retired.
1875—	Atlas, New Orleans; failed.
.....	Atlas, New York.
.....	Atlas Marine, New York.
1876—	Atlantic, Atlantic; retired.
1871—	Atlantic, Baltimore; reinsured in Home of Maryland.
1879—	Atlantic, Brooklyn; reinsured in Home of New York.
1843—	Atlantic, Boston.
1881—	Atlantic Mutual Marine, Provincetown.
1870—	Atlantic, New Orleans; reinsured in Factors and Traders.
1871—	Atlantic, Brooklyn; failed by Chicago fire.
1874—	Atlantic and Pacific, Chicago; failed.
1860—	Appleton Mutual Fire, Boston.
1871—	Aurora, Aurora. (Company of same name now in active existence.)
1891—	Aurora, Cincinnati; reinsured in National, Hartford.
1870—	Aurora, Covington; reinsured in Aurora of Cincinnati.
1869—	Baltic, New York; failed.
.....	Baltimore and Ohio, West Virginia; retired.
1877—	Bangor, Bangor; failed. (Mutual company; of same name now in active existence.)
1893—	Bangor Mutual, Bangor, Me.; retired.
.....	Bay State Mutual Fire, Chelsea.
1872—	Bay State, Worcester; failed by Boston fire.
1858—	Becket Mutual Fire, Becket.
1853—	Bedford Commercial, New Bedford.
1871—	Beekman, New York; failed by Chicago fire.
1890—	Belleville Mutual, Belleville, Ill.; reinsured in American, Philadelphia.
.....	Berkley, West Virginia; retired.
1881—	Beverly Marine, Beverly.
1885—	Beverly (name changed to Merchants); reinsured in Boston Marine.
1887—	Birmingham, Birmingham, Ala.; reinsured in Macon, Macon, Ga.
.....	Black Hills, Deadwood.
1871—	Bloomington, Bloomington; reinsured.
1891—	Boatmans F. & M., Pittsburgh; reinsured in Norwich Union, Norwich.
1877—	Boatmens, St. Louis; reinsured in American Central.
1872—	Boot and Shoe Manufacturers Mutual Fire, Lynn.
.....	Boot Manufacturers Mutual, Boston; retired.
1872—	Boston, Boston; failed by Boston fire.
1861—	Boston Inland Mutual, Boston.
.....	Boston Marine, Boston.
.....	Boston Mutual Fire, Boston.
1860—	Boston Mutual Fire, Boston.
1861—	Boston Mutual Fire, Boston.
1861—	Bowditch Mutual Fire (changed to Hamilton Mutual Fire, 1852), Salem.
.....	Bowdoin Mutual Fire, Boston.

When Retired.	NAME OF COMPANY.	When Retired.	NAME OF COMPANY.
1872—Boylston, Boston; failed by Boston fire.		1890—Citizens, Dover; reinsured in Manufacturers and Merchants, Concord, N. H.	
1894—Boylston, Boston; reinsured in German-American, New York.		1883—Citizens, Evansville, Ind.; reinsured in Niagara. (Company of same name now in active existence.)	
1865—Brevoort, New York; reinsured in Home, New York.		1887—Citizens, Mobile; failed.	
1877—Brewers, Milwaukee; reinsured in Home, New York.		1877—Citizens, Newark; reinsured in Peoples of New Jersey.	
1877—Brewers and Maltsters, New York; reinsured in Merchants, N. J.		1882—Citizens, Washington; reinsured in Firemens, Washington.	
1887—Brooklyn, New York; reinsured in American of Newark, N. J.		1877—Citizens, Wheeling; failed.	
..... Brunswick, West Virginia; retired.		1891—Citizens Mutual, Waterloo, Ia.; failed.	
1890—Buckeye Mutual, Shelby, O.; charter revoked.		1872—City, Boston; failed by Boston fire.	
1870—Buckeye State, Cincinnati; retired.		1872—City, Hartford; failed by Chicago fire.	
1884—Buffalo, Buffalo; reinsured in Phenix, Brooklyn.		1891—City, New York; reinsured in Guardian, London.	
1871—Buffalo City, Buffalo; failed by Chicago fire.		..... City, Philadelphia; retired.	
1871—Buffalo Fire and Marine, Buffalo; failed by Chicago fire.		1880—City, Providence; reinsured in Imperial and Northern.	
1877—Builders Mutual Fire, Boston.		1882—City, Richmond; reinsured in Underwriters Agency, New York.	
..... Builders, West Virginia; retired.		1891—City F. & M., Louisville; reinsured in Commercial Union, London.	
1885—Banker Hill Fire, Charlestown.		1892—City of London, London; reinsured in Palatine, Manchester.	
1873—Burnet, Cincinnati; retired.		..... City Mutual Fire, Boston.	
1894—Burlington, Burlington, Ia.; failed.		1877—City Mutual Fire, Roxbury.	
1892—California, San Francisco; reinsured in Peoples, Manchester; Home, New York; Firemans Fund, San Francisco.		1892—City Mutual, Harrisburg; failed.	
..... Cape Cod Mutual Fire, Harwich.		1857—City Mutual Marine and Fire, Boston.	
..... Cape Cod Mutual Fire, Sandwich.		1878—City Mutual, St. Louis; reinsured in the Queen.	
1878—Capital City, Albany; reinsured in Lancashire.		1876—Clayton, Wilmington; failed.	
1872—Capital City, Columbus; reinsured in Franklin of Ohio.		1879—Clay Fire and Marine, Newport, Ky.; reinsured in Buffalo German.	
1891—Capital City Mutual, Harrisburg; failed.		1871—Cleveland, Cleveland; failed by Chicago fire.	
1878—Capital City, Washington; retired.		1887—Clinton, New York; reinsured in German-American.	
1889—Capital Fire Association, Nashua; reinsured in Granite State, Portsmouth, N. H.		1857—Coasters Mutual Marine, Boston.	
1891—Capital Mutual, Topeka; failed.		1872—Cochituate Fire (changed to City Fire, 1856), Boston.	
1887—Carolina, Wilmington, N. C.; organization not completed.		1881—Colorado, Denver; failed.	
1872—Carrollton, Carrollton; retired.		1882—Columbia, New York; reinsured in Merchants, Newark.	
1892—Cascade, Seattle; reinsured in Farmers, Seattle.		1891—Columbia F. & M., Portland, Ore.; reinsured in German-American, New York.	
1885—Cedar Rapids, Cedar Rapids; reinsured in Continental, New York.		1844—Cohannet Mutual Fire, Taunton.	
1873—Central, Altoona; reinsured in National of Philadelphia.		1840—Columbian, Boston.	
1872—Central, Columbus; reinsured in Franklin of Ohio.		1894—Columbian, Louisville; failed.	
1872—Central, Dayton; reinsured in Farmers and Merchants of Dayton.		..... Columbian Fire and Marine, Boston.	
1874—Central, Philadelphia; failed.		1866—Columbia Marine, New York.	
..... Central, Pierre, Dak.		1883—Columbus Insurance and Banking Company, Columbus, Miss.; reinsured in Phoenix of London.	
1892—Central City, Selma, Ala.; reinsured in Hartford Fire.		1878—Commerce, New York; reinsured in Star of New York.	
1874—Central Mutual Fire, Worcester.		1888—Commercial, Baltimore; reinsured in German of Baltimore.	
1890—Central Mutual, Fort Wayne, Ind.; retired.		1871—Commercial, Chicago; failed by Chicago fire.	
1893—Central Ohio, Toledo; failed.		1871—Commercial, Cleveland; failed by Chicago fire.	
1866—Central Park, New York; reinsured in Knickerbocker.		1878—Commercial Mutual Marine, New Bedford.	
1878—Chaplain Mutual, Burlington; failed.		1876—Commercial, New Orleans; reinsured in Sun of New Orleans.	
1871—Charter Oak, Hartford; failed by Chicago fire.		1877—Commercial, St. Louis; failed.	
1864—Charlestown Mutual Fire, Charlestown.		1884—Commercial, New York; reinsured in Exchange, New York.	
1861—Chautauqua Mutual, Fredonia, N. Y.		1891—Commercial, San Francisco, reinsured in Palatine, Manchester.	
..... Chebacco Mutual Fire, Essex.		..... Commercial, West Virginia.	
1867—Chelsea Mutual Fire, Chelsea.		1882—Commercial Mutual, New York; retired from fire insurance field; in 1891 reinsured marine business in Providence-Washington.	
..... Chelsea, New York.		1860—Commercial, Nantucket.	
1887—Chesapeake, Washington, D. C.; fate unknown.		1882—Commonwealth, Boston; reinsured in Commercial Union.	
1871—Chicago, Chicago; failed by Chicago fire.		1871—Commonwealth, New York; failed.	
..... Chicago Firemens, Chicago; failed.		..... Commonwealth, Philadelphia; retired.	
1890—Chicago Mutual, Chicago; failed.		..... Commonwealth Insurance Company, West Virginia; retired.	
1871—Chouteau, St. Louis; failed by Chicago fire.		1891—Commonwealth Mutual, Decatur; failed.	
1893—Cincinnati Fire Association, Cincinnati; failed.			
1874—Citizens, Baton Rouge; reinsured in Crescent of New Orleans.			
1892—Citizens, Cincinnati; reinsured in German-American, New York; reorganized and failed in 1893.			

When Retired.	NAME OF COMPANY.
1871—	Connecticut, Hartford; failed by Chicago fire.
1878—	Connecticut Mutual, Meriden, Conn.; reinsured in Continental, New York.
1887—	Conservative, Bismarck (or Fargo), Dakota; failed.
1891—	Consolidated Mutual, Chicago; failed.
1872—	Continental, Baltimore; reinsured in German of Maryland.
.....	Continental, Philadelphia; retired.
.....	Continental, West Virginia; retired.
1889—	Continental Mutual, Michigan City, Ind.; failed.
1865—	Conway Fire, Boston.
1877—	Conway Mutual Fire, Conway.
.....	Corn City Mutual, Toledo; failed.
1872—	Corn Exchange, New York; failed by Boston fire.
.....	Corn Exchange, Philadelphia; failed.
1891—	Cranbury Mutual, Cranbury, N. J.; retired.
1870—	Crescent, Cincinnati; retired.
1893—	Crescent, Cleveland; failed.
1866—	Croton, New York; failed.
1891—	Dakota Fire and Marine, Mitchell, S. D.; retired.
1888—	Dakota Mutual; reinsured in Fidelity Mutual of Huron, Dakota.
1893—	Danless Mutual, Philadelphia; failed.
1891—	Dauphin Mutual, Dauphin, Pa.; failed.
1875—	Davenport, Davenport; retired.
1893—	Davenport Mutual, Davenport, Ia.
1876—	Defiance, Defiance; retired.
1884—	Delaware Fire, Wilmington; reinsured in American, Philadelphia.
1881—	Delaware State, Wilmington; license revoked, reinsured in Queen.
1892—	Delta, Greenville, Miss.; retired.
1874—	Delta, New Orleans; failed.
1882—	Denver, Denver; failed.
1893—	Denver, Denver; reinsured in Royal, Liverpool.
.....	De Soto, Missouri; retired.
.....	Detroit Mutual of Wayne, Washtenaw and Lenawee counties; failed.
1892—	Detroit Manufacturers Mutual, Detroit; retired.
.....	Dighton Mutual Fire, Dighton.
1864—	Dorchester Fire, Dorchester.
1888—	Dover Mutual, Dover, N. H.; reinsured in Citizens of Dover, N. H.
1891—	Druggists Mutual, Philadelphia; retired.
1891—	Duluth Mutual, Duluth; failed.
1891—	Dunbarton Mutual, Dunbarton, N. H.; retired.
1862—	Eagle Fire, Boston.
1872—	Eastern, Bangor; failed.
.....	Easton, Philadelphia; retired.
1864—	East River, New York; retired.
1891—	East Tennessee, Knoxville; reinsured in American, New York.
1891—	East Texas, Tyler; reinsured in Commercial of Alabama, Fire Association of Philadelphia, and Syndicate of Minneapolis.
1871—	Eclipse, Cincinnati; reinsured in Miami Valley.
1893—	Eclipse, Cleveland; failed.
1872—	Eliot, Boston; failed by Boston fire.
1893—	Elizabeth Mutual, Elizabeth, N. J.; reinsured in German-American, New York.
1892—	Electric Mutual, Boston; reinsured in Home, New York.
1891—	Ebot, Boston; reinsured in Niagara, New York.
.....	Emmet, New York; retired.
1878—	Empire, Chicago; retired.
1864—	Empire Mutual, Union Springs, New York.
1891—	Empire State, Rochester; reinsured in Royal, Liverpool.
1891—	Enterprise, Cincinnati; reinsured in Royal, Liverpool.
1871—	Enterprise, Philadelphia; failed by Chicago fire.

When Retired.	NAME OF COMPANY.
1880—	Enterprise, Pittsburgh; retired.
.....	Equitable, Chicago; failed.
1891—	Equitable, Meridian; reinsured in St. Paul German.
1866—	Equitable Safety, Boston.
1871—	Equitable, Wheaton, Ill.; failed by Chicago fire.
1893—	Erie, Sandusky; failed.
1844—	Essex Marine, Newburyport.
.....	Essex Mechanics Mutual Fire, Salem.
1856—	Essex, Salem.
1875—	Eureka, Pittsburgh; failed.
1860—	Everett, New York; failed.
1871—	Excelsior, New York; failed by Chicago fire.
1871—	Excelsior, St. Louis; reinsured in Merchants, N. J.
1872—	Exchange, Lynn; failed by Boston fire.
1891—	Exchange, New York; reinsured in Lancashire, Manchester; resumed 1892, and reinsured in New York Bowery in 1893.
1888—	Factors and Traders of New Orleans; reinsured in German-American of New York.
1877—	Factory Mutual, Boston.
1889—	Fairfax, Alexandria.
1880—	Fairfield, South Norwalk; reinsured in Niagara.
1857—	Fairhaven, Fairhaven.
1861—	Fairhaven Mutual Marine, Fairhaven.
1891—	Fairmount Mutual, Philadelphia; failed.
1892—	Fails City, Louisville; reinsured in London and Lancashire.
.....	Fall River Mutual Fire, Fall River.
1878—	Fame, Philadelphia; reinsured in Liverpool and London and Globe.
1880—	Faneuil Hall, Boston; reinsured in Underwriters Agency, N. Y.
1887—	Fargo, Fargo, Dak.; failed; W. E. Baker, receiver.
1875—	Farm Buildings, Herkimer; failed.
1891—	Farmers, Cincinnati; reinsured in Germania, New York.
1881—	Farmers, Howard, O.; wound up.
1894—	Farmers, Seattle; reinsured in State, Salem, Ore.
.....	Farmers and Mechanics, Washington, D. C.; failed.
1891—	Farmers and Mechanics Mutual, Millersburg, Pa.; failed.
1894—	Farmers and Merchants, Albany, Ore.; retired.
1870—	Farmers and Merchants, Cincinnati; retired.
1872—	Farmers and Merchants, Dayton; reinsured in Firemens of Dayton.
1874—	Farmers and Merchants, Mahanoy City; failed.
1890—	Farmers and Merchants Mutual, Denver; retired.
1885—	Farmers Home, Jelloway, O.; reinsured in Queen, Liverpool.
1877—	Farmers Joint Stock, Meriden, N. Y.; failed.
1870—	Farmers, Merchants and Manufacturers, Hamilton; reinsured in Firemens of Dayton.
1862—	Farmers Mutual Fire, Georgetown.
1892—	Farmers Mutual of Otsego, Crawford and Roscommon counties, Vanderbilt, Mich.; failed.
.....	Farmers Mutual, Canton, Dak.
.....	Farmers Mutual, Groton, Dak.
1860—	Farmers Mutual, Meriden, N. Y.
1866—	Farmers Mutual, Buffalo, N. Y.
1871—	Farmers Mutual, Malone, N. Y.
.....	Farmers Mutual of Hanson county, Alexandria, Dak.
1893—	Farmers Mutual of Ogemaw, Arenac and Iosco counties, Mich.; failed.
.....	Farmers Mutual of Gratiot and Isabella counties, Ithaca, Mich.; failed.
.....	Farmers Mutual of Kalkaska, Missaukee and Wexford counties, Mich.; failed.
.....	Farmers Mutual of Lake, Osceola and Wexford counties, Cadillac, Mich.; failed.

When Retired.	NAME OF COMPANY.
1890—	Farmers National, Plankinton; failed.
1891—	Farmers Union Mutual, Grand Island, Neb.; retired.
1878—	Farmville, Farmville, Va.; reinsured.
1861—	Fayette Mutual Fire, Lawrence.
1879—	Federal, Allegheny; reinsured.
.....	Federal, Washington, D. C.; retired.
1880—	Fidelity, Cincinnati; reinsured in Washington, Conn.
1878—	Fidelity, Delphos, O.; reinsured in Firemans Fund, San Francisco.
1889—	Fidelity, Great Falls, N. H.; reinsured in London and Lancashire.
1891—	Fidelity, Huron; reinsured in Hekla, St. Paul.
1891—	Fire Association, New York; reinsured in Lancashire, Manchester.
1892—	Fire Association of Texas, Waco; reinsured in Mechanics and Traders, New Orleans.
1888—	Fire Insurance Association, London; retired from United States; reinsured in New Hampshire of Manchester, Liberty of New York, Norwich Union of England, and Merchants of Newark, N. J.
1893—	Fire Insurance Company of Sandusky, O.; failed.
1871—	Firemans, Chicago; failed by Chicago fire. (Company of same name now in active existence.)
1873—	Firemans, Altoona; failed.
1892—	Firemens, Cincinnati; reinsured in Merchants and Manufacturers, Cincinnati.
1892—	Firemens, Dayton; reinsured in National, Hartford.
1884—	Firemans Trust, Brooklyn; reinsured in American of Newark, and Phenix of Brooklyn and Boston Marine.
1872—	Firemans, Boston; failed by Boston fire. (Company of same name now in active existence.)
1879—	Firemens Fund, New York; reinsured in Peoples, Newark.
1890—	Firemens, New York; reinsured in Home of N. Y., and Mechanics and Traders of New Orleans.
1844—	Fishing, Boston.
1845—	Fishing, Provincetown.
1870—	Forest City, Cleveland; failed.
.....	Franklin, Tenn.; retired.
1872—	Franklin, Boston; failed by Boston fire.
1882—	Franklin, Boston; reinsured in Scottish Union and National.
1874—	Franklin, Camden; failed.
1871—	Franklin, Cincinnati; reinsured in Triumph and Fidelity.
1890—	Franklin, Columbus; reinsured in Guardian, London.
1878—	Franklin, Baltimore; retired.
1889—	Franklin, Indianapolis; reinsured in German-American, New York.
1874—	Franklin, New Orleans; failed.
1867—	Franklin, New York; failed.
1871—	Fulton, New York; failed by Chicago fire.
1878—	Franklin, St. Louis; reinsured in Home, New York.
1885—	Franklin and Emporium, New York; reinsured in Exchange.
1871—	Franklin Mutual, Malone, N. Y.; retired.
.....	Franklin Mutual Fire, Lynn.
1868—	Gallatin, New York; failed.
1877—	Galveston, Galveston; reinsured in Union.
1871—	Garden City, Chicago.
1878—	Gebhard, New York; merged with the Star, New York.
1892—	General, London; reinsured fire business in London and Lancashire.
1889—	General Fire Ins. Co., Mut., New York; organized, but never materialized.
1887—	German-American, New Orleans; failed.
1890—	German-American, St. Paul; reinsured in St. Paul German.

When Retired.	NAME OF COMPANY.
.....	German-American Mut. of Wayne, Oakland and Livingston Cos., Detroit; failed.
1871—	German, Cleveland; failed.
1872—	German, Dayton; reinsured in Teutonia.
1874—	German, Erie; failed.
1893—	German, Quincy, Ill.; reinsured in Manchester, England.
1873—	German, St. Louis; reinsured in German-American and German Mutual.
.....	German, Scotland, Dak.
1892—	German, Philadelphia; reinsured in National, Hartford.
.....	German, Sioux Falls.
1871—	Germania, Chicago; failed by Chicago fire.
1873—	Germania, Cleveland; reinsured in Sun.
1879—	Germania, Elizabeth; reinsured in La Caisse Generale.
1890—	Germania, Memphis, Tenn.; reinsured in American, New York.
1885—	Germania, Newark; reinsured in German-American, New York.
.....	Germania, Toledo; retired.
1890—	Germania F. and M., Cincinnati; reinsured in German-American, New York.
.....	Girard, New York; retired.
1877—	Globe, Boston; reinsured in Shawmut.
1876—	Globe, Chicago; failed.
1893—	Globe, Cincinnati; reinsured in Phenix, Brooklyn.
1885—	Globe, Des Moines; reinsured in Des Moines.
1892—	Globe, N. Y.; reinsured in Liverpool and London and Globe; resumed business.
1884—	Gloucester, Gloucester, Mass.; reinsured in Westchester, New York.
1865—	Gloucester Marine, Gloucester.
.....	Gloucester Marine, Gloucester.
.....	Good Hope, New York; retired.
1865—	Goodhue, New York; reinsured in Metropolitan.
1882—	Granby Mut., Granby, Mass.; retired.
1880—	Granite, Richmond; reinsured in Connecticut Fire.
1854—	Great Barrington Mutual Fire (changed to Housatonic), Great Barrington.
1871—	Great Western, Chicago; failed by Chicago fire.
1875—	Great Western, New Orleans; failed.
.....	Great Western, Philadelphia; retired.
1886—	Great Western Marine, New York; retired.
1859—	Greenfield Stock and Mutual Fire, Greenfield.
1870—	Grocers, New York; reinsured in Greenwich.
1889—	Guaranty, Great Falls, N. H.; reinsured in London and Lancashire.
1877—	Guaranty, New York; reinsured in Royal.
1890—	Guardian, New York; reinsured in Liverpool and London and Globe.
.....	Guardian, Philadelphia; retired.
1874—	Gulf City, Mobile; reinsured in Stonewall.
1882—	Hamburg-Magdeburg, Hamburg; retired from United States, except Pacific coast, reinsuring risks in the Fire Insurance Association.
1884—	Hamden, Springfield.
1872—	Hamilton, Hamilton; reinsured in Miami Valley.
.....	Hamilton Marine, New York; retired.
1861—	Hamilton Mutual Fire, Salem.
1866—	Hamden Mutual, Springfield, Mass.; retired.
.....	Hand-in-Hand, Philadelphia; retired.
1866—	Harmony, New York; failed.
.....	Hardwick Mutual, Johnsonburg, N. J.; retired.
1871—	Hartford, Baltimore; reinsured in Royal.
1865—	Haverhill Mutual, Haverhill.
1890—	Hekla, Madison; reinsured in St. Paul German, St. Paul.
1891—	Hekla, St. Paul; reinsured in St. Paul German.
1860—	Hendrick Hudson, New York; retired.

When Retired.	NAME OF COMPANY.
1839—	Hermitage, Nashville, Tenn.; reinsured in Mechanics and Traders, New Orleans.
1878—	Hibernia, Cleveland; retired.
1880—	Hibernia, Newark; reinsured in German-American, New York.
1871—	Hide and Leather, Boston; failed by Chicago fire.
1879—	Hoboken, Hoboken; reinsured in London and Lancashire.
1881—	Hoffman, New York; reinsured in Niagara.
1877—	Holland Purchase, Batavia; retired.
1864—	Holliston Mutual Fire, Holliston.
1880—	Home, Charleston, S. C.; reinsured in Phoenix, London.
1871—	Home, Chicago; failed by Chicago fire.
1882—	Home, Columbus, O.; failed.
1877—	Home, Galveston; reinsured in East Texas Insurance Company.
1861—	Home Mutual Fire, Boston.
.....	Home Mutual Fire, Springfield.
1879—	Home, Newark; reinsured in Queen.
1871—	Home, New Haven, failed.
1872—	Home, Savannah; retired.
1893—	Home, Seattle; reinsured in Westchester, New York.
1881—	Home, Shenandoah; merged with Cedar Rapids.
1873—	Home, St. Joseph; reinsured in National of Missouri.
1892—	Home, Tiffin, O.; reinsured in Central Ohio, Toledo.
1873—	Home, Toledo; reinsured in Phenix of Brooklyn.
1874—	Home, Topeka; reinsured in Brewers.
1872—	Home, Washington; retired.
1878—	Home Mutual, Boston; failed.
1871—	Home Mutual, Cincinnati; reinsured in Union Central.
1891—	Home Mutual, Genesee county, Mich.; retired.
1880—	Home Mutual, St. Louis; reinsured in American Central.
.....	Home Mutual of Ionia, Clinton and Mont-calm Cos., Ionia, Mich.; failed.
1893—	Home Protection of No. Ala., Huntsville; reinsured in Mechanics and Traders, New Orleans.
1893—	Home, Nashville; reinsured in Westchester, New York, and resumed business.
1893—	Home, Mt. Vernon, O.; failed.
1893—	Home Manufacturers and Traders Mutual, Concord, N. H.; failed.
1860—	Homestead, New York; failed.
1878—	Homestead, Watertown; retired.
1857—	Hope, Boston.
1888—	Hope, New Orleans; failed.
1881—	Hope, New York; merged in Sterling, New York.
1874—	Hope, Philadelphia; failed.
1872—	Hope, Providence; failed by Chicago fire.
.....	Hope, Salem.
.....	Housatonic Mutual Fire, Stockbridge.
1875—	Householders, Pittsburgh; failed.
1872—	Howard, Boston; failed by Boston fire.
1888—	Howard, N. Y.; reinsured in London and Lancashire.
1885—	Houston, Houston; reinsured in City of London.
1884—	Hudson, Jersey City; reinsured in German-American, New York.
1891—	Hudson River F. and M., Jersey City; failed.
1882—	Humboldt, Newark; reinsured in Williamsburg City and Metropole.
1872—	Humboldt, New York; failed by Boston fire.
1878—	Huntington Mutual, Huntington, N. Y.
.....	Hunterdon Co. Mutual, Lambertville, N. J.; retired.
1881—	Illinois, Beardstown; failed.
1891—	Illinois Manfrs. Mutual, Rockford; retired.
1891—	Illinois Mutual, Alton; failed.
1871—	Illinois Mutual, Springfield; failed.

When Retired.	NAME OF COMPANY.
1882—	Importers and Traders, New York; reinsured in American, New York.
1893—	Indemnity, Davenport, Ia.; reinsured in State, Des Moines.
1866—	Indemnity, New York; failed.
1870—	Independence, Independence; failed.
1871—	Independent, Boston; failed by Chicago fire.
.....	Independent, Philadelphia; retired.
1893—	India Mutual (Marine), Boston; reinsured in Boston Marine.
1889—	Indian Head Mutual, Nashua; reinsured in Granite State, Portsmouth, N. H.
1891—	Indiana Farmers Mutual, Elwood; closed up.
1892—	Industrial Mutual, Harper's Ferry; retired.
1888—	Insurance Co. of Dakota, Sioux Falls, Dak.; failed.
1890—	Interstate Mutual, Elkhart, Ind.; failed.
1872—	International, N. Y.; failed by Chicago fire.
.....	Iron City, West Virginia; retired.
1887—	Iron and Oak, Birmingham, Ala.; reinsured in Macon, Macon, Ga.
1892—	Iron District, Spartanburg, S. C.; reinsured in American, Philadelphia.
1871—	Irving, New York; failed by Chicago fire.
1884—	Irving, New York; reinsured in United Fire Reinsurance.
1890—	Island Home, Knoxville; reinsured in East Tennessee, Knoxville.
.....	Jackson Marine, New York.
1891—	Jefferson, New York; reinsured in Home, New York.
1879—	Jefferson, St. Louis; reinsured in Tradesmen, New York.
1881—	Jefferson, Steubenville, O.; reinsured in Norwich Union.
1892—	Jersey City, Jersey City; reinsured in Liverpool and London and Globe.
1889—	Kanawaha F. and M., Grafton, W. Va.
1876—	Kansas, Leavenworth; failed.
1871—	Kansas City, Kansas City; failed.
1893—	Kansas Farmers, Abilene; reinsured in Shawnee, Topeka.
1890—	Kansas Home Mutual, Topeka; ceased doing business.
1889—	Kansas Protective Union Mutual, Topeka; retired.
.....	Kensinger, Philadelphia; retired.
1891—	Kenton, Covington; reinsured in National of Hartford.
1876—	Keystone, Reading; failed.
1865—	Kingston Mutual, Kingston.
1890—	Kittanning Mutual, Kittanning, Pa.; failed.
1871—	Knickerbocker, Chicago; failed by Chicago fire.
1890—	Knickerbocker, New York; reinsured in Home, New York.
1893—	Knox Mutual, Knox, Ind.; failed.
1892—	Lafayette, Brooklyn; reinsured in Home, New York.
1870—	Lafayette, Cincinnati; retired.
1880—	Lafayette, Lexington, Mo.; retired.
.....	La Belle, West Virginia; retired.
1880—	La Caisse Generale, Paris; retired from the United States, reinsuring American risks in Imperial and Northern, Howard and Fire Association.
1883—	La Confiance, Paris; retired from United States, reinsuring American risks in Howard, N. Y., and Manufacturers, Boston.
1883—	La Metropole, Paris, retired from United States, reinsuring in Niagara, New York.
.....	Lamar, Chicago; failed.
1871—	Lamar, New York; failed by Chicago fire.
1882—	Lamar, New York; reinsured in Phenix of Brooklyn.
1878—	Lancaster, Lancaster, Pa.; retired.
1872—	Lawrence, Boston; failed by Boston fire.
1861—	Lawrence Mutual Fire (changed to Hamilton Mutual Fire, 1852), Lawrence.
.....	Lawrence Mutual Fire, Methuen.
.....	Lee Mutual Fire, Lee.

When Retired.	NAME OF COMPANY.
.....	Lehigh Valley, W. Va., retired.
1891	Liberty, N. Y.; reinsured in Home, N. Y.
1887	Lincoln, Lincoln, Neb.; failed.
1882	Lenox, New York; reinsured in Citizens of New York.
1885	London and Provincial, London; retired from U. S.
1890	Long Island, Brooklyn; reinsured in Royal of Liverpool.
1853	Long Pond Mutual Fire, Boston.
1871	Lorillard Fire, New York; failed.
1883	Lorillard, New York; reinsured in Guardian, London.
1887	Louisiana, New Orleans, failed.
1892	Louisville Germania, Louisville; reinsured in Phenix, Brooklyn.
1890	Louisville Underwriters, Louisville; reinsured in Lancashire.
1871	Lumbermans, Chicago; reinsured in Firemens of Chicago.
1893	Lumbermens, Berkeley Springs, W. Va.; failed.
1890	Lumbermens and Manufacturers Mutual, Eau Claire; reinsured in Mutual Fire Association, Eau Claire.
1877	Lumbermans and Mechanics, St. Louis; reinsured in National of New York.
1880	Lycoming, Muncy, Pa.; failed.
1882	Lynchburg Banking and Insurance Company, Lynchburg, Va.; retired from insurance field.
1867	Lynn Mechanics Fire and Marine, Lynn.
1880	Madison, Madison, Wis.; reinsured in Westchester, New York.
.....	Maine Fire and Marine, Portland.
1879	Manayunk, Philadelphia; retired.
1890	Manchester City, Manchester, N. H.; reinsured in Ætna, Hartford.
1890	Manhattan Mutual, Goshen, N. Y.; failed.
1871	Manhattan, New York; failed by Chicago fire.
1882	Manhattan Fire, New York; reinsured in Phenix, Brooklyn.
1893	Manheim Mutual, Manheim, Pa.; failed.
1872	Manufacturers, Boston; failed by Chicago fire.
1885	Manufacturers F. and M., Boston, reinsured in Phenix, London; Providence-Washington and British and Foreign Marine.
1882	Manufacturers, Newark; reinsured in Germania, New York.
.....	Manufacturers, Philadelphia; retired.
1888	Manufacturers, Wheeling, W. Va.; retired.
1891	Manufacturers Mutual, Akron, O.; failed.
1891	Manufacturers Mutual, Batavia; failed.
1891	Manufacturers Mutual, Grand Rapids; failed.
1890	Manufacturers Mutual, Indianapolis; wound up.
1891	Manufacturers Mutual, Louisville; failed.
1890	Manufacturers Mutual, Milwaukee, failed.
1889	Manufacturers Mutual, St. Louis; dissolved.
1892	Manufacturers and Builders, New York; reinsured in Palatine, Manchester; resumed under control of latter and again reinsured in 1894.
1890	Manufacturers and Merchants, Concord; re-insured.
1893	Manufacturers and Traders Co-operative, New York; failed.
1843	Manufacturers Mutual, Worcester.
.....	Marblehead, Marblehead.
.....	Marblehead Mutual Fire, Marblehead.
1855	Marblehead Marine and Fire, Marblehead.
1891	Marine, St. Louis; reinsured in Manchester, Eng.
1871	Market Fire, New York; failed by Chicago fire.
1872	Market, New York; failed by Boston fire.
1866	Marlboro Mutual Fire, Marlboro.
1887	Maryland Plate Glass; retired.
1889	Mascoma, Lebanon; reinsured in Granite State, Portsmouth, N. H.
1857	Massachusetts Fire and Marine, Ipswich.

When Retired.	NAME OF COMPANY.
1848	Massachusetts Fire (changed to Massachusetts Fire and Marine in 1799), Boston.
1872	Massachusetts Mutual Fire, Boston.
1866	Massasoit, Springfield; retired.
1851	Maverick Mutual Fire, Chelsea.
1875	Mechanics and Farmers Mutual Fire (changed to Housatonic Mutual Fire, 1854), Stockbridge.
1887	Mechanics, Brooklyn; reinsured in the Alliance, New York.
1872	Mechanics Mutual Fire, Boston.
1880	Mechanics, Newark; reinsured in German-American of New York.
1884	Mechanics and Traders, New York; reinsured in Citizens, Pittsburgh.
.....	Mechanics, Owensburg, Va.; retired.
1879	Mechanics Mutual, Boston; reinsured in Scottish Union and National.
1891	Mechanics Mutual, Harrisburg, Pa.
1862	Mechanics Mutual, Troy; failed.
1849	Mechanics, New Bedford.
1887	Memphis City, Memphis; reinsured in North British and Mercantile.
1875	Mercantile, Chicago; reinsured in Home of Galveston.
1890	Mercantile, Cleveland; reinsured in Phenix of Brooklyn and Home of New York.
1888	Mercantile, Mobile; retired.
1888	Mercantile, N. Y.; reinsured in German-American.
1893	Mercantile Fire, Charleston, S. C.; failed.
1879	Mercantile Mutual (Marine), New York; retired.
.....	Mercantile Mutual of Sanilac, Huron and Tuscola Cos., Sand Beach, Mich.; failed.
.....	Merchants and Mechanics, Canton.
1891	Merchants Mutual, Cincinnati; reinsured in Phenix Mutual, Cincinnati.
1872	Merchants Mutual Marine, Newburyport.
1889	Merchants, Louisville; reinsured in Niagara, New York.
1845	Merchants, New Bedford.
1888	Merchants, N. Y.; reinsured in Westchester, N. Y.
1872	Merchants, Boston; failed by Boston fire.
1891	Merchants Mutual, Altoona; failed.
1887	Merchants Mutual, Baltimore; reinsured in Washington Fire and Marine, Boston. (See Washington Fire and Marine.)
1885	Merchants (formerly Beverly), Boston; reinsured in Boston Marine.
1877	Merchants, Louisville; reinsured in Royal. (Company of the same name now in active existence.)
1871	Merchants, Chicago; failed by Chicago fire.
1871	Merchants, Hartford; failed by Chicago fire.
1886	Merchants Marine, Bangor, Me.; reinsured in Insurance Company of North America.
1887	Merchants Mutual (Marine), Baltimore; retired.
1888	Merchants, Decatur, Ala.; failed.
1868	Merchants, Memphis; reinsured in Phenix of Memphis.
1875	Merchants, New Orleans; failed.
.....	Merchants, Philadelphia; retired.
1885	Merchants, St. Joseph, Mo.; reinsured in Connecticut, Hartford.
1891	Merchants and Manufacturers Mutual, Clinton, Ia.; reinsured in Merchants and Manufacturers, Clinton.
1871	Merchants and Mechanics, Baltimore; failed by Chicago fire.
1875	Merchants and Mechanics, Petersburg; failed.
.....	Merchants and Mechanics, Philadelphia; retired.
1882	Merchants and Mechanics, Richmond, Va.; reinsured in Underwriters Agency, New York.
1871	Merchants and Traders, Louisville; reinsured.

When Retired.	NAME OF COMPANY.
1888—	Merchants, New York; reinsured in Westchester and the Alliance.
1892—	Merchants Union, Kearney, Neb.; retired.
1891—	Meriden, Meriden; reinsured in Royal, Liverpool.
1883—	Metropole, Paris; retired from United States; reinsuring in Niagara.
.....	Metropolis, New York; retired.
1855—	Metropolitan Fire and Marine, Boston.
1877—	Metropolitan, New York; reinsured in Continental.
1893—	Miami Valley, Cincinnati; reinsured in Fire Association, Philadelphia.
1879—	Michigan State, Adrian; reinsured in Home, New York.
1891—	Mill Owners Mutual, Boston; reinsured in Arkwright Mutual, Boston.
1892—	Millers Mutual, De Pere, Wis.; retired.
.....	Millville Mutual, Millville, N. J.; failed.
1891—	Milwaukee Mutual, Milwaukee; failed.
1890—	Minneapolis Mutual, Minneapolis; failed.
1891—	Minnesota Fire Association, Minneapolis; consolidated with Millers and Manufacturers Mutual.
.....	Mississippi Valley, Knoxville; retired.
1879—	Mississippi Valley, Memphis; retired.
1891—	Mississippi Valley Manufacturers Mutual, Rock Island; reinsured.
1889—	Mobile, Mobile; reinsured in German-American, New York.
1879—	Mobile Fire Department Insurance Company, Mobile; retired.
1887—	Monarch, Des Moines; failed.
1870—	Monitor Mutual, Boston.
1887—	Montauk, Brooklyn; reinsured in Niagara, New York.
1865—	Montgomery Mutual, Canajoharie.
1865—	Monroe Mutual, Rochester.
1870—	Monumental, Baltimore; reinsured in Royal.
1865—	Morris, New York; failed.
1893—	Morotock, Danville, Va.; retired.
1891—	Mound City Mutual, St. Louis; reinsured in Commercial Union, London.
1889—	Mountain City, Chattanooga; retired.
1890—	Mutual, Chicago; failed.
1891—	Mutual, Cincinnati; failed.
1890—	Mutual, Eau Claire; failed.
1892—	Mutual Fire Association, Toledo; failed.
1861—	Mutual Safety Fire, South Reading.
1890—	Mutual, Tacoma; consolidated with Cascade F. and M., Seattle, Wash.
1891—	Mutual Artisans, Muscatine; failed.
1872—	Mutual Benefit, Boston; failed by Boston fire.
1891—	Mutual Fire, New York; reinsured in Lancashire and resumed business.
1891—	Mutual Guaranty, Clinton, Ia.; failed.
1866—	Mutual Marine, New Bedford.
1871—	Mutual Security, Chicago; failed by Chicago fire.
1891—	Mutual Union, Moline; retired.
1891—	Mutual of Kentucky, Louisville; failed.
.....	Mutual of Sanilac, Huron and Tuscola Counties, Sand Beach, Mich.; failed.
.....	Nail City, West Virginia; retired.
1838—	Nantucket Phoenix, Nantucket.
1832—	Nantucket Union Marine, Nantucket.
1874—	Narragansett, Providence; reinsured in Commercial Union.
.....	Nashua River Mutual Fire, Groton.
1889—	Nashville Commercial, Nashville, Tenn.; reinsured in German-American, New York.
1893—	Nashville F. and M., Nashville; reinsured in Ins. Co. North America, Philadelphia.
1872—	National, Bangor; failed by Boston fire.
1872—	National, Boston; failed by Boston fire.
1877—	National, Hannibal; failed.
1892—	National, New York; reinsured in Commercial Union, London.
.....	National, Philadelphia; retired.
1869—	National, San Francisco; reinsured.
1870—	National, Toledo; retired.

When Retired.	NAME OF COMPANY.
1893—	National, Weston, W. Va.; failed.
1891—	National Mutual, Akron; failed.
1891—	National Mutual, Harrisburg; failed.
1890—	National Mutual, Salina; failed.
1875—	Naumkeag Mutual Fishing, Salem.
1873—	Naumkeag Mutual Fire, Salem.
.....	Nautilus, New York.
1891—	Nebraska, Omaha; failed.
1872—	Neptune, Boston; failed by Boston fire.
.....	Neptune, Philadelphia; retired.
1863—	Neptune, Marine, New York.
1891—	Neptune F. and M., Boston; reinsured in Providence-Washington, Providence.
1871—	New Amsterdam, New York; failed.
1882—	Newark City, Newark; reinsured in Citizens, New York.
1832—	Newburyport, Newburyport.
1887—	New England Mutual, Worcester, Mass.; retired.
.....	New England, Hartford.
1880—	New England Mutual, Boston; reinsured in the General Reinsurance Company of Paris.
1843—	New England Marine, Boston.
1871—	New England Mutual Marine, Boston.
1859—	New England Railroad Mutual Fire, Boston.
1892—	New Hanover Mutual, New Hanover, Pa.; failed.
1883—	New Jersey, Newark; reinsured in German-American, New York.
1890—	New London Town Mutual, New Hampshire; retired.
1892—	New Orleans Insurance Co., New Orleans; reinsured in Phoenix, Hartford.
1875—	Newport, Providence; reinsured in Providence-Washington.
.....	Newton, Newton, Pa.; failed.
1881—	New York and Boston, New York; reinsured in Scottish Union and National and Lion.
1861—	New York and Erie Mutual, Middletown.
1865—	New World, New York; reinsured in North American of New York.
1891—	New York, N. Y.; reinsured in Home, N. Y., and resumed business.
1879—	New York Central, Union Springs; retired.
1881—	New York City, New York; reinsured in Standard of London.
1889—	New York Equitable, New York; reinsured in Royal Ins. Co.
1893—	New York Mutual (Marine), New York; retired.
1878—	New York Produce Exchange, New York; reinsured in Safeguard.
1872—	North American, Boston; failed by Boston fire. (Company of same name now in active existence.)
1871—	North American, Hartford; failed.
1871—	North American, New York; failed.
1879—	Northampton Mutual Fire, Northampton.
.....	Northampton Mutual Fire, Northampton.
1882—	Northern, Watertown; retired.
1891—	Northern, Sioux City; reinsured in Underwriters Mutual, Sioux City.
1894—	Northern City, Duluth; retired.
1893—	Northern Mutual, Council Bluffs; reinsured in Underwriters Mutual, Sioux City.
1892—	Northern Mutual, Toledo, O.; failed.
1861—	Northern New York Mutual, Plattsburgh.
1884—	North German, Hamburg; reinsured United States risks in Peoples, New York.
1873—	North Missouri, Macon; failed.
1891—	North Pacific, Tacoma; failed.
1875—	North Penn, North Wales; failed.
1887—	Northwestern, Duluth; reinsured in Commercial Union.
1868—	Northwestern, Oswego; failed.
1891—	Northwestern Mutual, Rock Island; reinsured.
1888—	Northwestern Mutual, Wahpeton, Dak.; retired.
.....	Northwestern Scandinavian Farmers Mutual, Grand Forks, Dak.

When Retired.	NAME OF COMPANY.
1871—	Norwich, Norwich; failed.
1871—	Occidental, San Francisco; failed by Chicago fire.
1843—	Ocean, Boston.
1889—	Ocean (Marine), Portland, Me.; retired.
1891—	Ocean (Marine), Halifax; retired.
1874—	Ocean Mutual, New Bedford.
1879—	Ohio, Chillicothe; reinsured in North German.
1891—	Ohio Manufacturers Mutual, Columbus; failed.
1871—	Ohio Valley, Cincinnati; reinsured in Farmers, Merchants, and Manufacturers.
1887—	Ohio Valley, Wheeling, W. Va.; retired.
1865—	Old Colony, Plymouth.
1893—	Old Dominion, Portsmouth, Va.; failed.
1877—	Old Dominion, Richmond; reinsured in Liverpool and London and Globe.
1881—	Old North State, Warrentown; wound up.
1860—	Ontario and Livingston Mutual, W. Bloomfield.
1883—	Orange County Mutual, Goshen, N. Y.; re-insured.
1892—	Oregon F. and M., Portland; reinsured in St. Paul F. and M. and Connecticut, Hartford.
1857—	Oriental, Salem.
1886—	Orient Mutual Marine, New York; retired.
1874—	Orient, Jersey City; failed.
1870—	Oriental, San Francisco; failed.
1884—	Oscalooza Fire, Oscaloosa, Ia.; reinsured in Cedar Rapids.
1889—	Oshkosh Mutual, Oshkosh, Wis.; retired.
1877—	Oswego and Onondaga, Phoenix; reinsured in Commercial Union.
1876—	Oswego Farmers, Sandy Creek; reinsured in Homestead of Watertown.
1856—	Pacific, New Bedford.
1890—	Pacific, Portland, Ore.; reinsured in American, Philadelphia.
1871—	Pacific, San Francisco; failed by Chicago fire.
1880—	Pacific, St. Louis; reinsured in American Central, St. Louis.
1874—	Pacific Mutual, New Bedford.
1881—	Pacific (Mutual Marine), New York; retired.
1891—	Packers and Provision Dealers, Chicago; reinsured in Norwich Union, Norwich.
.....	Palladium, New York.
1875—	Pallside, Jersey City; failed.
1866—	Paper Manufacturers Mutual, Pittsfield.
1891—	Park, New York; reinsured in Home, New York.
1891—	Parkersburgh, W. Va.; retired.
1877—	Paterson, Paterson; failed.
.....	Peabody, Philadelphia; retired.
1892—	Pelican, New Orleans; reinsured in Sun Mutual, New Orleans.
1873—	Pemberton Mutual Fire, Lawrence.
1887—	Pennsylvania, Pittsburgh; reinsured in German-American, New York.
1876—	Penn, Philadelphia; failed.
1857—	Pentucket Mutual Fire, Haverhill.
1872—	Peoples, Baltimore; reinsured in Hanover.
1872—	Peoples, Cincinnati; reinsured in City of Newport.
1864—	Peoples Equitable Mutual Fire, Taunton.
1875—	Peoples, Little Rock; reinsured in Continental.
1893—	Peoples, Manchester; failed.
1888—	Peoples, Memphis; reinsured in Northwestern National.
1890—	Peoples, Middletown, Conn.; reinsured in Connecticut, Hartford.
1893—	People Mutual, Harrisburg, Pa.; failed.
1882—	Peoples, Newark; reinsured in Niagara, New York.
1887—	Peoples, New Orleans; liquidated.
1891—	Peoples, New York; reinsured in National, Hartford.
1876—	Peoples, Philadelphia; failed.
1871—	Peoples, San Francisco; failed by Chicago fire.

When Retired.	NAME OF COMPANY.
1872—	Peoples, Worcester; failed by Boston fire.
1881—	Peoples, Trenton; reinsured in German-American, New York.
1892—	Peoples Industrial Fire Association, Cincinnati; failed.
1852—	Philadelphia, Philadelphia; reinsured in New York Life.
1891—	Phoenix, Concord; reinsured in Capital, Fire Underwriters Association and Manufacturers and Merchants Mutual, Concord.
1878—	Phoenix, Newark; retired.
1873—	Phoenix, Baltimore; reinsured in Hamburg-Bremen.
1881—	Phoenix, Memphis; reinsured. (Company of same name now in active existence.)
1877—	Phoenix, St. Louis; reinsured in Queen.
1892—	Phoenix Mutual, Cincinnati; retired.
1893—	Phoenix of North Dakota, Minot; failed.
1890—	Pierre F. and M., East Pierre, So. Dak.; failed.
1891—	Pine Tree Mutual, Winona; reinsured in Woodworkers Mutual, Winona.
1892—	Pioneer, Chicago; reinsured in Reserve, Cleveland.
.....	Pittsfield Mutual Fire, Pittsfield.
.....	Plainfield Mutual, Plainfield, N. J.; retired.
.....	Planters, Jackson, Miss.; retired.
1865—	Plymouth County Mutual, Plymouth.
1893—	Portland Lloyds (Marine), Portland, Me.; retired.
1891—	Potomac, Baltimore; reinsured in German-American, New York.
1886—	Pottsville Mutual, Pottsville, Pa.; retired.
1860—	Poughkeepsie Mutual, Poughkeepsie.
1886—	Puget Sound, Tacoma, Wash.; failed.
1872—	Prescott Fire and Marine, Boston; failed by Boston fire.
1888—	Prescott, Boston; reinsured in North British and Mercantile.
1839—	Protection, Boston.
1894—	Protection, Charleston, W. Va.; failed.
1888—	Protection, Knoxville, Tenn.; consolidated with Knoxville of Knoxville.
1891—	Prudential, Boston; reinsured in Home, New York.
1890—	Prudential, N. Y.; reinsured in American, N. Y.
1883—	Pueblo, Pueblo, Col.; retired.
1871—	Putnam, Hartford; failed by Chicago fire.
.....	Quaker City, Philadelphia.
1891—	Queen, Liverpool; retired from the United States and reinsured in Queen of America, New York.
1870—	Queen City, Cincinnati; retired.
.....	Quincy Mutual Fire, Quincy.
1856—	Railroad Mutual Fire, Boston.
1853—	Real Estate Mutual Fire, Boston.
1871—	Reapers City, Rockford; failed.
1886—	Reassurance, New York; reinsured in United Fire Reinsurance, Manchester.
1883—	Reassurance Generales, Paris; retired from U. S.; reinsuring in Crescent, N. O.
1890—	Reliance Mutual, Dubuque; failed.
1882—	Relief, New York; reinsured in Niagara, New York.
1871—	Republic, Chicago; failed by Chicago fire.
1882—	Republic, New York; reinsured in North British and Mercantile.
1893—	Reserve, Cleveland; failed.
1877—	Residence, Cleveland; reinsured in Scottish Commercial.
1871—	Resolute, Baltimore; reinsured in Imperial.
1878—	Resolute, New York; amalgamated with New York City.
1881—	Revere, Boston; reinsured in Fire Insurance Association, London.
1864—	Revere Mutual Fire and Marine, Boston.
1882—	Richmond Banking and Ins. Co., Richmond; reinsured in Royal.
1878—	Richmond Fire Association, Richmond; reinsured.

When Retired.	NAME OF COMPANY.
1876—	Ridgewood, New York; reinsured in Connecticut Fire.
.....	Robert Morris, Philadelphia; retired.
1881—	Rochester, Rochester, Pa.; failed.
1879—	Roger Williams, Providence; reinsured in Home, New York.
1891—	Rome, Ga.; reinsured in Commercial Union, London.
.....	Roxbury Mutual Fire, Roxbury.
1887—	Royal, Birmingham, Ala.; failed.
1879—	Royal Canadian, Montreal; retired from United States.
1879—	Safeguard, New York; reinsured in London and Lancashire.
1876—	Safeguard, Philadelphia; failed.
1893—	Safety Mutual, Sioux City, Ia.; retired.
1856—	Sagamore Mutual Fire, Lynn.
1875—	Salamander, New Orleans; reinsured in Teutonia of New Orleans.
1842—	Salem Commercial, Salem.
1839—	Salem Marine, Salem.
1893—	Sandusky, Toledo; failed.
1871—	Sangamo, Springfield; reinsured in Merchants of Chicago.
1891—	Salem Marine, Salem, Mass.; reinsured in Insurance Company of North America, Philadelphia.
1891—	Sauemin Mutual, Fairbury, Ill.; retired.
1890—	Savannah F. and M., Savannah; reinsured in Hartford.
1892—	Scania, Sweden; reinsured U. S. business in Royal Exchange, London.
1871—	Schenectady, Schenectady; failed.
1880—	Scottish Commercial, Glasgow; retired from the U. S.; reinsured in the Lancashire.
1880—	Seaboard, Norfolk, Va.; retired.
.....	Sea Marine, New York.
1890—	Seattle, Seattle, Wash.; failed.
1862—	Second Essex Mutual Fire, Salem.
1887—	Security, Mobile, retired.
1871—	Security, New York; failed by Chicago fire.
.....	Security, Philadelphia; retired.
1889—	Security, Spokane.
1889—	Security Mutual, Minneapolis; retired.
1892—	Seneca County Mutual, Tiffin, O.; failed.
.....	Seventh Ward, New York.
1880—	Shawmut, Boston; reinsured in the Reassurance Generales Company of Paris.
1859—	Shawmut Mutual Fire, Boston.
1891—	Shelburne Mutual, Shelburne, Mass.; retired.
1884—	Shoe and Leather, Boston; reinsured in Niagara, N. Y.; Phenix, Brooklyn; and Insurance Company of North America.
1872—	Shoe and Leather Dealers F. and M., Boston; failed by Boston fire.
1881—	Shreveport, La.; retired.
.....	Sioux Falls, Sioux Falls, S. D.; failed.
.....	Social, Salem.
.....	Somerville Mutual, Somerville, N. J.; retired.
1894—	South Carolina Home, Columbia; reinsured in Fire Association, Philadelphia.
1874—	Southbridge Mutual Fire, Southbridge.
1870—	Southern, Bloomfield; failed.
1874—	Southern, Savannah; reinsured.
1891—	Southern California, Los Angeles; reinsured in London and Lancashire.
.....	Southern Underwriters, N. C.; retired.
1877—	Southern Underwriters Association, Raleigh; failed.
1855—	South Mutual Fire, Boston.
1874—	Southside, Pittsburgh; failed.
1878—	South St. Louis Mutual, St. Louis; receiver appointed.
1887—	Spinners Mutual Fire, Boston.
1870—	Springfield, Springfield; failed. (Company of same name now in active existence.)
1879—	St. Joseph, St. Joseph; reinsured in German-American.
1877—	St. Louis, St. Louis; reinsured in Queen.
.....	St. Louis F. and M., St. Joseph; retired.

When Retired.	NAME OF COMPANY.
1870—	St. Louis Floating Dock and Ins. Co., St. Louis; reinsured in American Central.
1868—	St. Marks, New York; failed.
1880—	St. Nicholas, New York; reinsured in German-American.
1892—	St. Paul German, St. Paul; assigned.
1885—	Standard, Cincinnati; reinsured in Commercial, Cincinnati.
1891—	Standard, Kansas City; reinsured in Phenix, Brooklyn.
1892—	Standard, New York; reinsured in Liverpool and London and Globe.
1883—	Standard Fire Office, London; retired from U. S.; reinsuring in Phenix, Brooklyn.
1886—	Star, New York; reinsuring in Westchester, New York.
.....	Star Mutual, Boston.
1889—	State, Anniston, Ala.
1871—	State, Chicago; failed by Chicago fire.
1870—	State, Cleveland; failed.
1873—	State, Hannibal; failed.
1879—	State, Jersey City; reinsured in Westchester.
1876—	State, Lansing; reinsured in Home, N. Y.
1877—	State, Laporte; failed.
1893—	State Investment and Insurance, San Francisco; failed.
1865—	State Mutual, Boston.
.....	State Mutual Fire, Boston.
1891—	State Mutual, Hyde Park, Ill.; retired.
1861—	State, New Haven; failed.
1874—	State, Parkersburgh; failed.
.....	State, Philadelphia; retired.
1875—	State, Rutland; reinsured in Aetna.
1893—	Steadman Mutual, Toledo; failed.
1892—	Steelton Mutual, Steelton, Pa.; failed.
1887—	Sterling, New York; reinsured in Exchange.
1872—	Suffolk, Boston; failed by Boston fire.
1856—	Suffolk, Boston.
1877—	Suffolk Mutual Fire, Boston.
.....	Suffolk Mutual Fire, Boston.
1886—	Sun Mutual Marine, New York; retired.
1876—	Sun, Cleveland; reinsured in Continental.
1884—	Sun, Philadelphia; reinsured in Spring Garden and United Fire Reinsurance.
1876—	Sunbury, Sunbury; failed.
1862—	Tanners Mutual, Boston.
.....	Taunton Mutual Fire, Taunton.
1876—	Tennessee, Nashville; reinsured in Conn.
1882—	Tabor, Denver; retired.
.....	Tennessee Fire Marine, Tennessee; retired.
1871—	Teutonia, Cleveland; failed.
1878—	Texas Banking and Insurance Co., Galveston; retired from insurance field.
.....	Thames, Norwich.
1871—	Tobacco, Cincinnati; reinsured.
1885—	Toledo F. and M., Toledo; reinsured.
1889—	Topeka Mutual, Topeka, Kan.; wound up.
1886—	Trade, Camden; reinsured in German-American, New York.
1861—	Traders Mutual Fire, Boston.
1875—	Tradesmens, New Orleans; failed.
1861—	Traders Mutual, Boston.
1883—	Tradesmens, New York; reinsured in Standard Fire Office.
1887—	Transcontinental, Mandan, Dak.; discontinued business.
1864—	Tri-mountain Mutual Fire, Boston.
1857—	Triton Mutual Marine, Boston.
1872—	Tremont, Boston; failed by Boston fire.
1857—	Tremont, Boston.
1857—	Tremont Mutual, Boston.
.....	Triton, New York.
1872—	Triumph, Cincinnati; reinsured in Amazon.
1893—	Trumbull, Warren and Cleveland, O.; failed.
1841—	Truro Fire and Marine, Truro.
1872—	Underwriters, Altoona; failed.
1892—	Underwriters, Wheeling; reinsured in Phenix, London, and Citizens, Toledo.
1874—	Union, Baltimore; reinsured in Home of New York.
.....	Union, Boston.

When Retired.	NAME OF COMPANY.	When Retired.	NAME OF COMPANY.
1883—	Union, Cincinnati; reinsured in Westchester N. Y.	1860—	Washington Mutual, Granville, N. Y.
1841—	Union Fire and Marine, Lynn.	1893—	Washington Union, Cleveland; failed.
1874—	Union, Jersey City; failed.	1892—	Watertown, Watertown, S. D.; retired.
1891—	Union, Louisville; reinsured in German-American, New York.	1863—	Waterville Mutual, Waterville, N. Y.
1815—	Union Marine and Fire, Newburyport.	1866—	Wayne Mutual, Newark, N. Y.
1842—	Union Marine, Salem.	1882—	Watertown, Watertown, N. Y.; reinsured in Sun Fire Office.
1872—	Union Mutual, Boston.	1890—	Webster Mutual, Webster, Me.; retired.
1877—	Union Mutual Marine, New Bedford.	1894—	Wellfleet Marine, Wellfleet, Mass.; retired.
1857—	Union Mutual Marine, Newburyport.	1888—	West Baltimore, Baltimore; reinsured in Westchester, New York.
.....	Union, New Orleans; retired.	1891—	West Coast, Tacoma; failed.
1873—	Union, St. Louis; reinsured in Merchants of New Jersey.	1871—	Western, Buffalo; failed by Chicago fire.
1892—	Union F. and M., New Zealand; reinsured in Alliance, London.	.....	Western, Chicago; reinsured in Fire Association, Philadelphia.
1890—	Union Mutual, Cincinnati; failed.	1891—	Western, Cincinnati; reinsured in Citizens, Cincinnati; reorganized and failed in 1893.
.....	Union Mutual F. and M., St. Louis; failed.	1888—	Western F. and M., Sioux Falls, Dak.; consolidated with Insurance Company of Dakota, Sioux Falls. (See Insurance Company of Dakota.)
1878—	Union Mutual Marine, N. Y.; retired.	.....	Western, Massachusetts; Pittsfield.
1856—	Union, Provincetown.	1886—	Western, Philadelphia; retired.
1892—	United Fire, Manchester, Eng.; reinsured U. S. business in Palatine, Manchester.	1866—	Western Farmers Mutual, Batavia, N. Y.
.....	United Fire, Marine and Life, New York.	1893—	Wytheville Insurance and Banking, Wytheville, Va.; failed.
1892—	United Manufacturers Mutual, Cleveland; reinsured in N. E. Factory Mutuals.	1886—	Western, San Francisco; reinsured in State Investment and Ins. Co.
1862—	United States, Boston.	1891—	Western Home, Sioux City; failed.
1870—	United States, Baltimore; failed.	1891—	Western Manufacturers Mutual, Chicago; reinsured in Fire Association, New York.
1877—	United States, St. Louis; reinsured in Scottish Commercial.	1892—	Western Millers Mutual, Minneapolis; reinsured in Michigan Millers Mutual, Lansing.
1893—	United Underwriters, Atlanta; consolidated with Atlanta Home.	1875—	Western Texas, San Antonio; retired.
1889—	Vanderbilt, Memphis, Tenn.; reinsured in St. Paul F. and M.	1879—	Westfield Mutual, Westfield.
1884—	Virginia Home, Richmond; reinsured in Phoenix, London.	1857—	Westfield Mutual, Westfield, Mass.; retired.
1860—	Wall Street, New York; failed.	1874—	West Virginia, Wheeling; failed.
.....	Ware Mutual Fire, Ware.	1879—	Weymouth and Braintree Mutual, Weymouth; retired.
1861—	Warren, Boston.	1858—	Whaling, New Bedford.
1870—	Washington, Baltimore; reinsured in the Queen.	1878—	Whately Mutual Fire, Whately.
1872—	Washington, Boston; failed by Boston fire.	1873—	Williamsport, Williamsport; reinsured.
1876—	Washington, Memphis; reinsured in Merchants of Memphis.	1888—	Wilmington Mutual, Wilmington, N. C.; failed.
1871—	Washington, New York; failed by Chicago fire.	1871—	Winnesbeik, Freeport; failed.
1867—	Washington Marine, New York.	.....	Winthrop Mutual Fire, Boston.
1872—	Washington, New York; failed by Boston fire.	1891—	Wisconsin Mutual, Milwaukee; failed.
.....	Washington, Philadelphia; retired.	1891—	Woodworkers Mutual, Winona; reinsured in Armstrong, New York.
1879—	Washington, Plainfield, N. J.; reinsured in German-American.	1895—	Workingmans, New Orleans; failed.
1893—	Washington, Tiffin and Marietta, O.; failed.	1873—	World Co-operative of Kings and New York Counties, N. Y.; failed.
.....	Washington, Washington; retired.	1862—	Worlds Safe, Troy; failed.
1893—	Washington Farmers, Spokane; failed.	1875—	Wyoming, Wilkesbarre; reinsured in Commercial Union.
1888—	Washington F. and M., Boston; reinsured in Niagara of New York, National of Hartford and Union and California of California.	1865—	Wyoming Mutual, Warsaw, N. Y.
1888—	Washington F. and M., Mobile; reinsured in American of Philadelphia and German of Freeport.	.....	Yankton, Yankton, Dak.
		1871—	Yonkers and New York, New York; failed by Chicago fire.

COMPANIES IN THE HANDS OF RECEIVERS.

The following is a list of life, fire and fire-marine insurance companies in the United States in process of winding up, with names of receivers or other person in charge:

ALABAMA.

Alabama, Mobile; F. G. Bronberg, Assignee.
Citizens, Mobile; F. G. Bronberg, Assignee.
Royal, Birmingham; Geo. Eustis, Receiver.

CALIFORNIA.

State Investment and Insurance, San Francisco; F. W. Van Reynegom, Receiver.

ILLINOIS.

Alton Mutual Insurance and Savings, Alton.
Aurora, Aurora; L. D. Brady, Assignee.
Chicago, Chicago; J. K. Murphy, Assignee.

ILLINOIS—Continued.

Chicago Firemens, Chicago; O. H. Horton, Assignee.
Commercial Fire, Chicago; R. E. Jenkins, Assignee.
Commonwealth Mutual, Decatur; F. M. Young, Receiver.
Consolidated Mutual, Chicago; Chas. Rose, Receiver.
Empire, Chicago; William O. Cole, Assignee.
Equitable, Chicago; James Long, Assignee.
Germania, Chicago; William Vorke, Assignee.
Globe, Chicago; Robert E. Jenkins, Assignee.

ILLINOIS—*Continued.*

Great Western, Chicago; C. W. Upton, Assignee.
Home Fire, Chicago; Thomas Bulkley, Assignee.
Illinois Mutual, Alton; Geo. R. Hewitt, Receiver.
Kaickerbocker, Chicago.
Lamar, Chicago; George Chandler, Assignee.
Lumbermans, Chicago; T. C. Hoag, Assignee.
Manufacturers Mutual, Batavia; E. B. Sherman, Receiver.
Merchants, Chicago; William E. Rollo, Assignee.
Mutual, Chicago; Thos. Parker, Jr., Receiver.
Mutual Security, Chicago; Mark Kimball, Assignee.
Pioneer, Chicago; Charles P. Swiebert, Receiver.
Republic, Chicago; J. R. Payson, Assignee.
State, Chicago; Norman C. Perkins, Assignee.
Winnesheik, Freeport.

INDIANA.

American Mutual Fire, Michigan City; J. C. Haddock, Receiver.
Central Mutual, Fort Wayne.
Continental Mutual Fire, Michigan City; A. F. Thornton, Receiver.
Interstate Mutual Fire, Elkhart; E. O. Fuller, Receiver.
Knox Mutual, Knox.
Manufacturers Mutual Fire, Indianapolis; W. T. Brown, Receiver.

IOWA.

Burlington, Burlington; W. E. Blake, Assignee.
Citizens Mutual, Waterloo; James Sherman, Assignee.
Monarch Fire, Des Moines; B. F. Allen, Receiver.
Mutual Artisans, Muscatine; Thomas P. Gray, Receiver.
Mutual Guaranty, Clinton; A. P. Barker, Assignee.
Reliance Mutual, Dubuque; J. K. Deming, Assignee.
Western Home, Sioux City; John P. Allison, Receiver.

KANSAS.

Capital, Topeka; R. M. Gage, Receiver.
Kansas Home Mutual Fire, Topeka; R. A. Henderson, Assignee.
National Mutual, Sedalia; C. Sellers, Receiver.
Topeka Mutual Fire, Topeka, Kan.; Judge Sutton, Receiver.

KENTUCKY.

Columbian, Louisville; S. H. Sullivan, Assignee.
Manufacturers Mutual, Louisville; W. P. Dickerson, Receiver.
Mutual of Kentucky, Louisville; W. P. Dickerson, Assignee.

MAINE.

Bangor Mutual, Bangor; W. P. Hubbard, Receiver.

MASSACHUSETTS.

Alliance, Boston; in hands of old management.
Atlantic Fire and Marine, Provincetown; in hands of old management.
Boot Manufacturers Mutual, Boston; C. A. Grinnell, President; in hands of old management.
Commonwealth, Boston; in hands of old management.
Faneuil Hall, Boston; in hands of old management.
Franklin, Boston, and Granby Mutual of Granby are voluntarily closing; in hands of old management.
Gloucester, Gloucester; reinsuring and closing.
Manufacturers Fire and Marine, Boston; reinsured and closing; Samuel Appleton, President.
Mechanics Mutual, Boston; in hands of old management.
Merchants (formerly Beverly), Boston; reinsured and closing.
New England Mutual, Boston; in hands of old management.
Revere, Boston; in hands of old management.
Shawmut, Boston; in hands of old management.

MASSACHUSETTS—*Continued.*

Shoe and Leather, Boston; reinsured and closing; J. C. Abbott, President.
Westfield Mutual, Westfield; in hands of old management.
Weymouth and Braintree Mutual, Worcester; in hands of old management.

MICHIGAN.

Detroit Mutual of Wayne, Washtenaw and Lenawee counties, Detroit; Walter S. Walker, Receiver.
Farmers Mutual of Gratiot and Isabella counties, Ithaca; Chauncy Waterbury, Receiver.
Farmers Mutual of Kalkaska, Missaukee and Wexford counties; W. D. Totten, Receiver.
Farmers Mutual of Lake, Oscola and Wexford counties, Cadillac; J. W. Giddings, Receiver.
German-American Mutual of Wayne, Oakland and Livingston counties, Detroit; W. S. Walker, Receiver.
Manufacturers Mutual, Grand Rapids; Dwight Goss, Receiver.
Mercantile Mutual of Samilac, Huron and Tuscola counties, Sand Beach; Elbridge F. Bacon, Receiver.
Mutual Fire of Samilac, Huron and Tuscola counties, Sand Beach; Elbridge F. Bacon, Receiver.

MINNESOTA.

Hekla Fire, Madison; St. Paul Title Insurance and Trust Company, Receiver.
Minneapolis Mutual, Minneapolis; J. T. Wymian, Receiver.
St. Paul German, St. Paul; J. F. Franzen, Assignee.

MISSOURI.

Kansas City Fire and Marine, Kansas City; C. P. Ellerbe, Superintendent Insurance Department, *ex-officio* Receiver.
Lafayette, Lexington; William Morrison, President.
Manufacturers Mutual Fire and Marine, St. Louis; C. P. Ellerbe, Superintendent Insurance Department, *ex-officio* Receiver.
Phoenix, St. Louis; Webb M. Samuel, President.
St. Louis Fire and Marine, St. Joseph; A. P. Goff, President.
St. Louis, St. Louis; Adolphus Meyer, President.
Union Mutual Fire and Marine, St. Louis; C. P. Ellerbe, Superintendent Insurance Department, *ex-officio* Receiver.
United States, St. Louis; W. H. Scudder, President.

NEBRASKA.

Merchants Union, Kearney; A. F. Gatewood, Receiver.
Nebraska, Omaha; A. U. Wyman, Receiver.

NEW HAMPSHIRE.

Peoples, Manchester; N. P. Hunt, Receiver.

NEW JERSEY.

Hardwick Mutual, Johnsonburg; Isaac Wildrick, President.
Hudson River Fire and Marine, Jersey City; Joseph Knapp, Receiver.
Hunterdon County Mutual, Lambertville; Jeremiah Hayhurst, President.
Millville Mutual Fire and Marine, Millville; Thos. Whittaker, Receiver.
Plainfield Mutual, Plainfield; Alfred Berry, President.
Somerville Mutual, Somerville; E. S. Doughty, President.
Trade, Camden; Edmund May, President.

NEW YORK.

Adriatic, New York city; Metropolitan Trust Company, Receiver, 35 Wall street.
Amity, New York; Edward Merritt, Receiver, 20 Court street, Brooklyn, N. Y.

NEW YORK—Continued.

Arctic, New York city; Vincent Tillyou, Receiver, 71 Liberty street.
 Atlantic, New York city; Charles A. Townsend, Receiver, Brooklyn, N. Y.
 Baltic, New York city; Wm. H. Kipp, Receiver, 231 Broadway.
 Beekman, New York city; Francis M. Bixby, Receiver.
 Brewers and Malsters, New York city; Newton American, Receiver, 92 Hudson street.
 Brooklyn Fire, Brooklyn; H. F. Hutchinson, Receiver, 4 Park Place, New York.
 Buffalo, Buffalo; Townsend Davis, Receiver, 200 Main street.
 City, New York; Saml. Townsend, Receiver, 29 Wall street.
 Clinton Fire, New York; C. E. W. Chambers, Receiver, 63 William street.
 Columbia, New York; E. H. Hobbs, Receiver.
 Columbian Marine, New York city; J. P. Paulison, Receiver, 3 Nassau street.
 Commerce Fire, New York city; Samuel C. Babcock, Receiver.
 Commercial Fire, New York; John Castree, President; Walter Lawrence, Secretary.
 Firemans Fund, New York city; Chas. E. Appleby, Receiver, 55 Liberty street.
 Firemens Trust, Brooklyn; William Burrell, Receiver, 233 Greenwich street.
 Firemens, New York; John F. Halsted, Receiver, 153 Broadway.
 Franklin and Emporium Fire, New York; Horace F. Hutchinson, Receiver, 4 Park Place, New York.
 Guardian Fire, New York; Jas. C. Stevens, Secretary.
 Hoffman Fire, New York; William O. Hoffman, President; John D. McIntire, Secretary.
 Holland Purchase, Batavia; H. Chaddock, Receiver.
 Homestead, Watertown; Samuel T. Woolworth, Receiver.
 Irving, New York; George C. Owens, Secretary.
 Irving Fire, New York city; Martin L. Crowell, Receiver, 157 Broadway.
 Importers and Traders, New York; Joseph Brokaw, President; Daniel A. Smith, Secretary.
 Knickerbocker Fire, New York; S. Duncan Leverich, Receiver, 48 Wall street, New York.
 Lamar, New York city; W. R. Macdiarmid, Receiver, 5 and 7 Dey street.
 Lenox Fire, New York city; Arthur H. Walton, Secretary, 69 Liberty street.
 Lorillard, New York; C. Norwood, President; E. B. Magnus, Secretary.
 Manhattan Mutual, Goshen; Grant B. Taylor, Receiver, Newburgh, N. Y.
 Mechanics and Traders, New York; John M. Tompkins, Secretary.
 Mercantile Mutual, New York city; C. T. Harbeck, Receiver, 35 Wall street.
 Merchants, New York; J. H. Morris, Receiver.
 Metropolitan, New York city; Charles E. Appleby, Receiver, 55 Liberty street.
 New York and Boston, New York city; A. G. Stevens, President; R. L. Livingston, Secretary, 73 William street.
 New York Central, Union Springs; W. E. Huggitt, President.
 New York City, New York; Cyrus H. Loutrel, President; John D. Kinsman, Secretary.
 New York Equitable, New York; John Miller, Receiver, 58 Wall street, New York.
 Northern, Watertown; Geo. B. Phelps, Receiver.
 Orient Mutual, New York; Chas. Irving, Receiver, 41 Wall street.
 Oswego and Onondago Phoenix; E. Kirby West, Receiver, Baldwinsville, N. Y.
 Pacific Mutual, New York city; Jacob R. Telfair, Receiver, 56 Wall street.
 Prudential Fire, New York; A. P. M. Roome, Receiver, 173 Broadway, New York.

NEW YORK—Continued.

Reassurance, New York; John W. Murray, President *pro tem*; P. A. Rason, Secretary.
 Relief Fire, New York; Henry Demarest, President; G. W. Damon, Secretary.
 Republic Fire, New York; Robert S. Hone, President; Edward Rowell, Secretary.
 Safeguard, New York city; James Yereance, Receiver, 46 Pine street.
 Security, New York city; E. H. Wootton, Receiver, 37 Broadway.
 St. Nicholas, New York; Jacob Dubois, Secretary.
 Star, New York; Joseph Wood, Receiver.
 Sun Mutual (Marine), New York; J. J. Paulison, Receiver, 31 Nassau street.
 Tradersmens Fire, New York; D. R. Keeler, President; T. Y. Brown, Secretary.
 Washington, New York city; Wm. K. Lothrop, Receiver, 45 William street.
 World Co-operative of Kings and New York counties, New York; S. F. Prentice, Receiver.

Marine.

Great Western, New York; Ferdinand Mott, President; W. F. Lockwood, Secretary.
 Orient Mutual Marine, New York; Charles Irving, Receiver, 41 Wall street, New York.
 Pacific Mutual Marine, New York; Jacob R. Telfair, Receiver, 56 Wall street, New York.
 Sun Mutual Marine; John V. Paulison, President; John P. Nichols, Secretary.
 Union Mutual Marine, New York; Ferdinand Stagg, Vice-President.

NORTH DAKOTA,

Fargo Fire, Fargo; W. E. Baker, Receiver.

OHIO.

Buckeye Mutual, Shelby; Trustees—W. H. Hahn and Edward Mansfield.
 Central Ohio, Toledo; E. S. Chittenden, Receiver.
 Citizens, Cincinnati; Chas. T. Greve, Receiver.
 Corn City Mutual, Toledo; M. J. Enwright, Receiver.
 Crescent, Cleveland; R. C. Mason, Receiver.
 Eclipse, Cleveland; F. J. Drake, Receiver.
 Erie, Sandusky; C. H. Jenkins, Assignee.
 Fire Insurance Company of Sandusky.
 Home, Columbus; J. W. King, Assignee.
 Home, Tiffin; E. E. Cunningham, Receiver.
 Mutual, Cincinnati; Samuel A. McCune, Receiver.
 Mutual Fire Association, Toledo; Chas. E. Chittenden, Receiver.
 Reserve, Cleveland.
 Sandusky, Toledo; F. K. Hogue, Receiver.
 Seneca County Mutual, Tiffin; U. T. Curran, Receiver.
 Steadman Mutual, Toledo; D. L. Beall, Assignee.
 Trumbull, Warren and Cleveland.
 Union Mutual, Cincinnati; J. B. Swing, Trustee.
 Washington, Tiffin and Marietta.
 Washington Union, Cleveland; John N. Weld, Receiver.
 Western, Cincinnati; D. L. Beall, Assignee.

PENNSYLVANIA.

Alliance Mutual, Reading; W. Van Reed, Receiver.
 Capital City Mutual, Harrisburg; John A. Kramer, Receiver.
 Central, Philadelphia; A. W. Norris, Receiver.
 Dauntless Mutual, Philadelphia; Equitable Trust Company, Receiver.
 Dauphin Mutual, Dauphin; L. W. Turner, Receiver.
 Fairmount Mutual, Philadelphia; Alfred W. Ott, Assignee.
 Farmers and Mechanics Mutual, Millersburg; S. S. Bowman, Receiver.
 German, Erie; W. Varnum, Receiver.
 Lycoming Fire, Muncy; J. A. Beeber, Receiver, Williamsport.
 Manheim Mutual, Manheim; J. M. Dunlap, Receiver.
 Merchants Mutual, Altoona; B. M. Nead, Receiver.

PENNSYLVANIA—*Continued.*

Newton, Newton; A. W. Norris, Receiver, Philadelphia.
 Peoples Mutual, Harrisburg; M. W. Snyder, Receiver.
 Penn Fire, Philadelphia; W. McMichael, Receiver.
 Rochester, Beaver Co.; J. J. Wickham, Receiver.
 Sunbury, Sunbury; Haas & Kaase, Receivers.
 Williamsport, Williamsport; W. D. Crocker, Receiver.

SOUTH CAROLINA.

Mercantile, Charleston; J. H. Bruning, Jr., Assignee.

SOUTH DAKOTA.

Fidelity, Huron; Maris Taylor, Receiver.
 Insurance Co. of Dakota, Sioux Falls; J. S. Lewis, Receiver.
 Pierre F. and M., Pierre; U. S. Coon, East Pierre, Receiver.

TENNESSEE.

Mississippi Valley, Knoxville; L. B. Eaton, President.

VIRGINIA.

Wytheville Insurance and Banking, Wytheville; H. J. Heuser, Receiver.

WASHINGTON.

Cascade, Seattle; C. A. Riddle, Receiver.
 North Pacific, Tacoma; S. C. Slaughter, Receiver.

WASHINGTON—*Continued.*

Seattle Fire, Seattle; J. K. Elderkin, Albany, Ore., Receiver.
 Washington Farmers, Spokane; M. D. Smith, Receiver.
 West Coast F. and M., Tacoma; W. A. Rice, Receiver.

WEST VIRGINIA.

Lumbermens, Berkeley Springs; W. G. Guenther, Receiver.
 Protection, Charleston; John King, Receiver.

WISCONSIN.

Lumbermens and Manufacturers, Eau Claire; J. A. Smith, Receiver.
 Mutual, Eau Claire; J. A. Smith, Receiver.
 Manufacturers Mutual, Milwaukee; T. L. Kennon, Receiver.
 Milwaukee Mutual, Milwaukee; S. H. Seamans, Receiver.
 Oshkosh Mutual Fire, Oshkosh; C. W. Davis, Receiver.
 Wisconsin Mutual, Milwaukee; S. H. Seamans, Receiver.

CANADA.

The Canadian Agricultural Insurance Company of Montreal; P. S. Ross, J. P. Fish, G. H. Dumaisnil, Montreal, Assignees.

POLICY CLAUSES.

SPECIAL CLAUSES, PERMITS AND PRIVILEGES IN GENERAL USE.

The following compilation embraces the special clauses, permits and privileges in general use among fire underwriters. Some of them apply to particular localities, but all find their way to the companies to a greater or less extent. As coinsurance is attracting much attention at the present time, special interest attaches to the various accepted clauses herewith given :

N. Y. Standard,

FULL VALUE CO-INSURANCE CLAUSE.

If at the time of the fire the whole amount of insurance on the property covered by this policy shall be less than the actual cash value thereof, this company shall, in case of loss or damage, be liable for such portion only of the loss or damage as the amount insured by this policy shall bear to the actual cash value of such property.

This clause is sometimes modified so as to apply to one or more specific items of the policy.

N. Y. Standard,

PERCENTAGE CO-INSURANCE CLAUSE.

If at the time of fire the whole amount of insurance on the property covered by this policy shall be less than per cent of the actual cash value thereof, this company shall, in case of loss or damage, be liable for only such portion of such loss or damage as the amount insured by this policy shall bear to the said per cent of the actual cash value of such property.

N. Y. Standard,

PERCENTAGE CO-INSURANCE CLAUSE (FOR APPLICATION TO SPECIFIC ITEMS OF POLICY).

If at the time of fire the whole amount of insurance on the property covered by the item of this policy on shall be less than per cent of the actual cash value thereof, this company shall, in case of loss or damage, be liable for only such portion of such loss or damage as the amount insured under said item shall bear to the said per cent of the actual cash value of the property covered by such item .

N. Y. Standard,

PERCENTAGE VALUE CLAUSE.

If at the time of fire the whole amount of insurance on the property covered by this policy shall exceed per cent of the actual cash value thereof, this company, in case of loss or damage shall not be liable to pay more than its *pro rata* share of said per cent of the actual cash value of such prop-

erty; and should the whole insurance at the time of fire exceed the said per cent, a *pro rata* return of premium on such excess of insurance from the time of the fire to the expiration of this policy shall be made on surrender of the policy.

Also modified to apply wholly to certain specific items of the policy.

N. Y. Standard,

PERCENTAGE CO-INSURANCE AND LIMITATION CLAUSE.

If at the time of fire the whole amount of insurance on the property covered by this policy shall be less than per cent of the actual cash value thereof, this company shall, in case of loss or damage, be liable for such portion only of the loss or damage as the amount insured by this policy shall bear to the said per cent of the actual cash value of such property; *provided*, that in case the whole insurance shall exceed per cent of the actual cash value of the property covered by this policy, this company shall not be liable to pay more than its *pro rata* share of said per cent of the actual cash value of such property; and should the whole insurance at the time of fire exceed the said per cent a *pro rata* return of premium on such excess of insurance from the time of the fire to the expiration of this policy shall be made on surrender of the policy.

N. Y. Standard,

PERCENTAGE CO-INSURANCE AND LIMITATION CLAUSE (FOR APPLICATION TO SPECIFIC ITEMS OF POLICY).

If at the time of fire the whole amount of insurance on the property covered by the item of this policy on shall be less than per cent of the actual cash value thereof, this company shall in case of loss or damage be liable for only such portion of such loss or damage as the amount insured under said item shall bear to the said per cent of the actual cash value of property covered by such item; *provided*, that in case the whole insurance on the property covered by said item shall exceed per cent of the actual cash value of the same, this company shall not on said item be liable to pay more than its *pro rata* share of said per cent of the actual cash value of such property; and should the whole insurance on said item at the time of fire exceed the said per cent a *pro rata* return of the premium on such excess of insurance from the time of the fire to the expiration of this policy shall be made on surrender of the policy.

DWELLING ABOVE GRADE FLOOR.

It is understood and agreed, that the above described building is occupied exclusively for dwelling purposes above the grade floor.

FOUR-FIFTHS CO-INSURANCE CLAUSE.

It is a part of the consideration of this policy and a basis upon which the rate of premium is fixed, that the assured shall maintain insurance on the property hereby insured by this policy to the extent of four-fifths of the actual cash value thereof, and that failing so to do the insured shall be a co-insurer to the extent of such deficit, and in that event shall bear his, her or their proportion of any loss.

It is, however, mutually understood and agreed, that in case the total insurance shall exceed four-fifths of the whole cash value of the property insured by this policy, the assured shall not recover from this company more than its *pro rata* share of four-fifths of the whole actual cash value of such property.

AVERAGE CLAUSE.—DISTRIBUTION FORM.

It is understood and agreed, that the amount insured by this policy shall attach in each of the above-named premises, in that proportion to the whole amount insured that the value of the property covered by this policy, contained in each of said places, shall bear to the value of such property contained in all of above-named premises.

AVERAGE CLAUSE.—CO-INSURANCE PLAN.

It is hereby agreed, in case of loss or damage under this policy, the assured shall recover of this company such proportion of said loss only as the amount hereby assured shall bear to the whole value of property at risk hereunder.

AVERAGE, OR CO-INSURANCE CLAUSE.

It is understood and agreed, that in case of loss under this policy, this company shall be liable only for such proportion of the whole loss as the amount of this insurance shall bear to the cash value of the whole property herein described at the time of the fire. Other insurance permitted without notice until required.

N. Y. Standard,

CO-INSURANCE CLAUSE FOR FLOATING POLICY.

It is hereby declared and agreed that in case the property aforesaid in all the buildings, places or limits included in this insurance shall, at the breaking out of any fire or fires, be collectively of greater value than the sum insured, then this company shall pay and make good such a portion only of the loss or damage as the sum insured shall bear to the whole value of the property aforesaid, at the time when such fire or fires shall first happen.

But it is at the same time declared and agreed, that if any specific parcel of goods included in the terms of this policy, or such goods in any specified building or buildings, place or places, within the limits of this insurance, shall at the time of any fire be insured in this or any other office, this policy shall not extend to cover the same, excepting only as far as relates to any excess of value beyond the amount of such specific insurance or insurances, and shall not be liable for any loss, unless the amount of such loss shall exceed the amount of such specific insurance or insurances, which said excess only is declared to be under the protection of this policy and subject to average, as aforesaid.

It being the true intent and meaning of this agreement that this company shall not be liable for any loss unless the amount of such loss shall exceed the amount of the specific insurance or insurances, and then only for such excess, which said excess shall be subject to average, as above.

TEXAS EQUITABLE CO-INSURANCE AND CONTRIBUTION CLAUSE.

It is understood and agreed that this company shall be liable only for such proportion of the loss under any division of this policy as the amount hereby insured on said division bears to the total value of the property described therein. *Provided*, that in the event the total insurance on any division of property, as per division of this policy, shall be equal to or exceed the total cash value thereof, then this company shall be liable only for its *pro rata* share of the loss under such division, it being understood and

agreed that the term "total insurance" embraces the amount for which the assured becomes co-insurer as per agreement as follows, to-wit:

It is understood and agreed that the assured shall be a co-insurer for at least the following amounts, to-wit: If at the time of the fire the total value of all property covered by this policy shall amount to \$25,000 or less, the assured shall be a co-insurer for at least 25 per cent of the value of each division of property as per division of this policy; if the total value of all property shall be more than \$25,000 and does not exceed \$50,000, the assured shall be a co-insurer for at least 20 per cent of the value of each division of property; if the total value of all property shall be more than \$50,000 and does not exceed \$100,000, the assured shall be a co-insurer for at least 15 per cent of the value of each division of property; if the total value of all property shall exceed \$100,000, the assured shall be a co-insurer for at least 10 per cent of the value of each division of property.

Other insurance permitted without notice until required.

This slip is attached to and forms a part of Policy No. _____, of the _____ Insurance Company.

Agent.

COTTON FORM.—SPECIFIC POLICY.

\$ _____ on cotton in bales, owned or held by _____ in trust or in commission, or sold but not delivered, while contained in the _____

And it is agreed and understood to be a condition of this insurance, that this policy shall not apply to or cover any cotton which may at the time of loss be covered in whole or in part by a marine policy; and it is further agreed to be a condition of this policy that only actual payment, by check or otherwise, for cotton purchased, shall constitute delivery of cotton from the seller to the buyer; and it is further agreed that tickets, checks or receipts delivered to bearer, shall not be considered as evidence of ownership; and it is further agreed that this company shall be liable for only such proportion of the whole loss as this insurance bears to the cash value of the whole property herein described at the time of fire.

Other insurance permitted without notice until required.

COTTON FORM.—COMMON CARRIER.

On their liability as common carriers, for cotton in bales, for which bills of lading have been issued by their duly authorized agents, while contained in the _____

It is hereby understood and agreed that in case of loss under this policy, this company shall be liable only for such proportion of the whole loss as the amount of this insurance bears to the cash value of the whole property herein described, at the time of the fire.

It is also agreed that, if this company shall pay any sum for loss under this policy, it shall at once, and to the extent of such payment, be legally subrogated to all the rights of the party to whom such payment shall have been made.

Other insurance permitted without notice until required.

COTTON FORM.—WAREHOUSEMEN.

On their liability on cotton in bales, consigned to them by the _____ common carrier for compressing or awaiting shipment, contained in the _____

It is understood and agreed that, in case of loss under this policy, this company shall be liable only for such proportion of the whole loss as the amount of this insurance bears to the cash value of the whole property herein described at the time of the fire. Any loss that may be ascertained and proven to be due the assured under this policy shall be held payable to the above-named common carrier as its liability may appear.

Other insurance permitted without notice until required.

TWO-THIRD VACANCY CLAUSE.

In consideration of the following agreement, permit is hereby given for the premises described in this policy to remain vacant or unoccupied from the _____ day of _____ 189____, to the _____ day of _____ 189____, at noon, and it is hereby agreed by this company and the assured, that this company shall not be liable for more than two-thirds of any loss occurring during said vacancy on the property insured by this policy, nor for more than two-thirds of the amount of said policy, or any item thereunder; nor in case of other insurance on said property for more than its *pro rata* proportion of two-thirds of such loss, whether such insurance has become void or not; and further, it is agreed that the building insured or containing the property insured, shall at all times during such vacancy be under the care and supervision of some competent person, the doors and windows securely locked, and all rubbish removed, or this policy shall be void.

VACANCY PERMIT.

Permission is hereby granted for the building described in this policy to be vacant or unoccupied for the period of _____ days from this _____ day of _____ 189____

And in consideration of the increased hazard by reason of such vacancy, it is hereby agreed that during such vacancy one-third of the amount of the insurance hereunder upon such building shall be and remain suspended and of no effect; and in case of loss this company shall not be liable to pay or make good to the assured exceeding two-thirds of the sum insured, nor exceeding two-thirds of the interest of the assured in the property, and provided that if there is other insurance upon the property then this company shall only be liable for two-thirds of such proportion of the loss or damage as the sum hereby insured bears to the whole amount of insurance thereon, whether such other insurance contains a similar provision or not.

In case of other insurance on property covered by this policy that has been or shall be rendered void or voidable by the vacancy or non-occupancy hereby permitted for the purpose of contribution in case of loss, such other insurance shall be held as valid and subsisting.

Warranted that the doors and windows of the building herein described shall be securely locked or fastened during the period for which this permit is granted, or this permit and the policy to which it belongs shall be void and of no effect.

THREE-QUARTER LOSS CLAUSE.

It is understood and agreed to be a condition of this insurance that in case of any loss under this policy this company is to be liable only for three-fourths of said loss, not exceeding the sum insured, and the other one-fourth to be borne by the assured; and in the event of other insurance permitted thereon, then liable for its proportion only of such loss.

THREE-FOURTHS LOSS CLAUSE.

It is understood and agreed to be a condition of this insurance that in the event of loss under this policy this company shall not be liable for an amount greater than three-fourths of such loss (not exceeding the sum hereby insured), and in the event of additional insurance permitted hereon then this company shall not be liable for an amount greater than its proportion of three-fourths of such loss; in both events the other one-fourth to be borne by the assured.

Special reference being had to the assured's application, No. _____, on which this insurance is based, and which is hereby made a warranty by the assured and a part of this policy.

WISCONSIN.—THREE-FOURTHS CLAUSE.

It is a part of the consideration of this policy and the basis upon which the rate of premium is fixed that in the event of a loss this company shall not be liable for any amount greater than its proportion of three-fourths of the actual cash value of the property covered by this policy at the time of such loss; also that the insured shall maintain insurance on this property insured by this policy to the extent of three-fourths of the actual cash value thereof at the time of any fire; failing so to do the assured shall be an insurer to the extent of such deficit, and in that event shall bear his or their proportion of any loss.

It is further understood and agreed that in no event shall this company be liable for any amount in excess of the sum hereby insured. Total insurance permitted is hereby limited to three-fourths of the cash value of the property hereby covered and to be concurrent herewith.

Warranted that in event of loss or damage the adjustment and settlement of same shall be had in the State of Wisconsin only, and no suit in court shall be brought under this policy except in the State of Wisconsin.

THREE-FOURTHS VALUE CLAUSE.

It is a condition of this policy that in event of loss or damage by fire to the property insured this company shall not be liable for an amount greater than three-fourths of the cash market value of the same (not exceeding the amount of said policy) at the time immediately preceding such loss or damage; and in the event of other insurance on the property insured then this company shall be liable only for its proportion of three-fourths of such cash market value at the time of the fire.

INSURANCE AND INDEMNITY LIMIT.

It is part of the consideration of this policy and a basis upon which the rate of premium is fixed, that in the event of loss this company shall not be liable for an amount greater than three-fourths of the actual cash value of the property covered by this policy at the time of such loss, and in case of other insurance, whether policies are concurrent or not, then for only its *pro rata* proportion of such three-fourths value.

Total insurance is hereby limited to three-fourths of the cash value of the property hereby covered and to be concurrent herewith.

Minnesota Standard Policy,

PERCENTAGE VALUE CLAUSE.

If at the time of fire the whole amount of insurance on the property covered by this policy shall exceed seventy-five per cent of the actual cash value thereof, this company, in case of loss or damage, shall not be liable to pay more than its *pro rata* share of said seventy-five per cent of the actual cash value of such property; and should the whole insurance at the time of fire exceed the said per cent, a *pro rata* return of premium on such excess of insurance from the time of the fire to the expiration of this policy shall be made on surrender of the policy.

MICHIGAN LUMBER.—FOUR-FIFTHS CLAUSE.

On lumber, lath and pickets, owned or held by _____ in trust or on commission, or sold but not delivered, piled on the _____ situate at Mich., warranted by the assured that a continuous clear space of _____ feet shall hereafter be maintained between the property hereby insured and any wood-working or manufacturing establishment, and that said space shall not be used for handling or piling lumber, lath and pickets thereon for temporary or other purposes, (tramways, upon which lumber, lath and pickets are not piled, alone being excepted); but this shall not be construed to prohibit loading or unloading within, or the transportation of lumber and timber products across such clear space. It being especially understood and agreed by the assured that any violation of this warranty shall render this policy null and void.

It is a part of the consideration of this policy and the basis upon which the rate of premium is fixed, that the assured shall maintain insurance on the property hereby insured by this policy, to the extent of four-fifths of the actual cash value thereof, and that failing so to do the assured shall be an insurer to the extent of such deficit, and in that event shall bear his, her or their proportion of any loss.

It is, however, mutually understood and agreed, that in case the total insurance shall exceed four-fifths of the whole cash value of the property insured by this policy, the assured shall not recover from this company more than its *pro rata* share of four-fifths of the whole actual cash value of such property.

With clear space of 200 feet.....	\$2.50
With clear space of 150 feet.....	2.75
With clear space of 100 feet.....	3.00
Less than 100 feet.....	Mill rate.

Michigan Standard Policy,

LUMBER CLAUSE.

On lumber (lath and shingles, if any) owned by _____ or held in trust or on commission, or sold but not delivered, piled.

SPACE CLAUSE.—Warranted by the assured that a continuous clear space of _____ feet shall hereafter be maintained between the property hereby insured, and any woodworking or manufacturing establishment, and that said space shall not be used for handling or piling of lumber thereon for temporary purposes, tramways, upon which lumber is not piled, alone being excepted. But this shall not be construed to prohibit loading or unloading within, or the transportation of lumber and timber products across such clear space; it being especially understood and agreed by the assured that any violation of this warranty shall render this policy null and void.

FOUR-FIFTHS CLAUSE.—It is part of the consideration of this policy and the basis upon which the rate of premium is fixed, that the assured shall maintain insurance on the property hereby insured by this policy, to the extent of four-fifths of the actual cash value thereof, and that failing so to do, the assured shall be a co-insurer to the extent of such deficit, and in that event shall bear his, her or their proportion of any

loss. It is, however, mutually understood and agreed that in case the total insurance shall exceed four-fifths of the whole actual cash value of the property insured by this policy, the assured shall not recover from this company more than its *pro rata* share of four-fifths of the whole actual cash value of such property.

GRADED GRAIN.—NEW YORK FORM.

It is understood and agreed, that this policy is subject to the conditions of the following warehouse receipts:

All warehouse receipts for graded grain which shall represent the grain as stored in a system of two or more warehouses, shall not be deemed regular unless the following condition is incorporated in the receipt:

In case of loss or damage by fire, so much of the said grain as shall bear a like proportion to this receipt, as the lost or damaged grain of same grade shall bear to all grain of like grade in this system of warehouses at the date of said disaster, shall be adjudged lost or damaged, and the obligation to deliver it under this receipt, except as salvage, canceled.

It is also understood that in case of loss under this policy, this company shall be liable only for such proportion of the whole loss as the amount of this insurance bears to the cash value at the time of the fire, of the whole property to which this policy applies, but not exceeding the proportion which this policy bears to the whole amount of insurance thereon.

It is further understood that what is known as identity preserved grain, is not covered by this policy.

SIMPLE VACANCY PRIVILEGE.

Privileged for the premises to remain unoccupied during a portion of the year, but in charge of a competent person.

Minnesota Standard Policy.

LIGHTNING CLAUSE.

This policy shall cover any direct loss or damage caused by lightning (meaning thereby the commonly accepted use of the term lightning, and in no case to include loss or damage by cyclone, tornado or wind-storm), not exceeding the sum insured, nor the interest of the insured in the property, and subject in all other respects to the terms and conditions of this policy. *Provided*, however, if there shall be any other insurance on said property this company shall be liable only *pro rata* with such other insurance for any direct loss by lightning, whether such other insurance be against direct loss by lightning or not.

GASOLINE STOVE PERMIT.

Permission is hereby given to use one gasoline stove in the dwelling insured under this policy, but only upon the conditions and under the restrictions following and in consideration of the observance of the same on the part of the insured, viz.: A supply of gasoline not exceeding five gallons may be kept in a tight and entirely closed metallic can, free from leak but not within twenty-five feet of said dwelling and additions thereto. No stove reservoir to be filled or any gasoline can or package to be opened, or gasoline to be in any manner handled except by daylight, and then not in the same room or room adjoining (having open communication) where or while any fire, blaze or artificial light or flame of any kind is burning.

In consideration of the above permission, for which no extra charge is made,

It is understood and agreed between this company and the insured that in case of loss on property insured under this policy during the time for which the above permit is granted, this company shall not be liable for more than its proportion of two-thirds the actual cash value thereof at the time of the loss, and not exceeding the amount insured, the insured being hereby made a co-insurer thereon to the extent of one-third thereof.

GASOLINE IS DANGEROUS TO LIFE AND PROPERTY.

In consideration of _____ dollars, extra premium, permission is hereby given for the using of a gasoline stove, the reservoir to be filled by daylight only, and when the stove is not in use. Warranted by the insured that no artificial light be permitted in the room when the reservoir is being filled, and no gasoline, except that contained in the reservoir, shall be kept within the building, and not more than five gallons, in a tight and entirely closed metallic can, free from leak, on the premises adjacent thereto.

To be attached to policy No. _____ Insurance Co. Dated this _____ day of _____ 189____ agent at _____

CAUTION.—The danger from gasoline stoves is not so much in themselves as in the having the gasoline about. At ordinary temperature gasoline continually gives off inflammable vapor, and a light some distance from it will ignite it through the medium of this vapor. It is said that one pint of gasoline will impregnate 200 cubic feet of air and make it explosive, and it depends upon the proportion of air and vapor whether it becomes a burning gas or a destructive explosive. Beware of any leaks in cans, and never forget how dangerous a material you are handling. Never attempt to fill the stove reservoir while the stove is burning, or if any other light is in the room. A little carelessness may hazard your life as well as property.

OPTIONAL CHARGES FOR GASOLINE PERMITS.

On policies of \$1000 or less, \$1 per year.

On policies above \$1000, 10 cents per \$100.

Term policies: Add at same ratio as for other term insurance, but in no case shall the premium be less than \$2 for three years, nor less than \$3 for five years.

When more than one stove is used in a dwelling, if by any additional tenant or tenants, multiply the rate for one stove by the number of tenants using stoves.

These rates also apply to buildings of single occupancy used in part for dwellings where a gasoline stove is used for culinary purposes.

Short rates: One month, five-tenths of annual rate.

Two months, six-tenths of annual rate.

Three months, seven-tenths of annual rate.

Four months, eight-tenths of annual rate.

For a fraction of a month, charge for a full month.

For more than four months, charge the annual rate.

Where gasoline stoves are in mercantile or manufacturing establishments, same form of permit must be required, and an extra charge be made of not less than 25 cents per \$100 for each stove in use. The extra charge to apply alike to buildings and contents.

KEROSENE OIL STOVE PERMIT.

Permission is hereby given to use in the above-mentioned premises one kerosene oil stove, provided kerosene of the standard of 150 degrees or more is used. Reservoir to be filled when cold by daylight only; said stove to be securely fastened to prevent its overturning, otherwise this policy is rendered null and void. The use of gasoline is prohibited under any circumstances whatever.

COAL OIL AND GUNPOWDER PERMIT.

Permission granted to keep for sale not to exceed _____ pounds of gunpowder and five barrels of kerosene oil (which shall not be less than the United States standard of 110 degrees); warranted by the assured that neither will be handled nor sold within fifteen feet of artificial light.

This form is attached to, and made a part of, policy No. _____, of the _____ insurance company of _____, Agent.

Twenty-five pounds of gunpowder generally, but in some sections fifty pounds.

PERMIT FOR KEEPING GASOLINE, BENZINE OR NAPHTHA. MERCANTILE RISKS.

In consideration of \$ _____ extra premium, permission is granted to keep on the premises, not to exceed _____ gallons in all, of gasoline, benzine, naphtha, or any other of the light products of petroleum. The same to be kept in close metallic cans, free from leak; warranted by the assured that the drawing of the same shall be done by daylight only, and that no artificial light shall be permitted in the room where such fluids are kept.

NATURAL GAS PERMIT.

Permission is hereby granted to use natural gas for fuel and lights, provided the pressure in the pipes and at the burners does not exceed two (2) pounds to the square inch and is controlled by a pressure regulator, attached to the service pipe outside of the building, such regulator to be arranged to automatically close the inlet pipe in case the flow of gas falls from any cause.

PERMIT TO USE EARTH OIL FOR FUEL WITHOUT GRAVITY PRESSURE.

Permission is granted to use earth oil for fuel in generating steam on the premises described in this policy, upon the following express conditions only, agreement to observe which on the part of the assured is hereby made a warranty.

The tank for the storage of the oil supply shall be of boiler iron, having proper ventilation for the escape of inflammable vapors, and located not less than 100 feet from the premises described if wholly underground, or 200 feet if wholly or in part above ground, and shall be so placed that the highest point in said oil supply shall be lower than the furnace where such oil is to be burned or converted for burning.

The pipe used for conveying oil to said furnace to be so laid that when not in use the flow of oil, if any, will be away from the premises and back to the storage tank; it being the intention of the parties hereto to provide against the conveying of oil to the place of burning by gravity pressure, or by any other process, from a supply higher than the place of use thereof.

It is further stipulated that if said storage supply tank is wholly or partly above ground, it shall not be located within one hundred feet of any other building more than one story high, and shall be surrounded by a wall or earth embankment of sufficient capacity to contain the contents of said tank in case of a leakage or bursting.

The foregoing conditions being at all times fully complied with, this permit is to remain in force free of charge, otherwise the entire policy to which this is attached and all insurance thereunder shall be void and of no effect.

ORDINARY MECHANICS' PRIVILEGE.

"Privileged for mechanics to make ordinary alterations and repairs, but it is understood and agreed that extraordinary alterations, repairs or additions are prohibited without notice and consent of this company in writing."

ELECTRIC LIGHT PRIVILEGE.

Privileged to use electric light in the premises herein described when the entire equipment is in full compliance with the standard of the New York Board of Fire Underwriters existing at the time of the commencement of this policy, and a certificate is given by the Electric Light Co. to that effect; it being understood that no alteration shall be made in the equipment without written consent of this company.

ELECTRIC LIGHT PERMIT.

Permission granted to use electric lights. Wires to be doubly coated with approved insulating material, and to have at least double the conducting capacity required by the generators, and to be protected where they enter the buildings by porcelain or hard rubber insulators, with cut-off outside. Lamp frames to be insulated, and to have globes closed at the bottom, and at the top by chimney with spark arresters where inflammable materials are exposed.

Minnesota Standard policy,

APPLICATION AND SURVEY CLAUSE.

This policy is based upon an application and survey of the property on file which is hereby referred to as forming part of this policy. Date of application. _____ Where filed. _____

N. Y. Standard,

CONDITION AS TO INCUMBRANCES.

If the property, real or personal, covered by this policy be or become incumbered by a mortgage, trust deed, judgment or otherwise, this entire policy shall be void, unless otherwise provided by agreement indorsed hereon or added thereto.

IRON SAFE CLAUSE.

The assured under this policy hereby covenants and warrants to keep a set of books, showing a complete record of business transacted, including all purchases and sales both for cash and credit, together with the last inventory of stock insured; and further covenants and warrants to keep such books and inventory securely locked in a fire-proof safe at night and at all times when the store mentioned in the within policy is not actually open for business, or in some secure place not exposed to a fire which would destroy the house where such business is carried on; and in case of loss, the assured warrants and covenants to produce such books and inventory, and in the event of a failure to produce the same this policy shall be deemed null and void, and no suit or action at law shall be maintained thereon for any such loss.

SPACE CLAUSE.

Warranted by the assured that a continuous clear space of feet shall be maintained between the property hereby insured and any special hazard or manufacturing risk, and that any violation of this warranty shall render this policy void.

LUMBER YARD.—SPACE CLAUSE.

Warranted by the assured that a continuous clear space of feet shall hereafter be maintained between the property hereby insured and any wood-working or manufacturing establishment, and the said space shall not be used for the handling or piling of lumber thereon for temporary purposes; tramways, upon which lumber is not piled, alone being excepted; but this shall not be construed to prohibit loading or unloading within, or the transportation of lumber and timber products across such clear space; it being specially understood and agreed by the assured that any violation of this warranty shall render this policy null and void.

CASES OF WATER.

Warranted, that the assured will keep full of water at least three casks, of not less than thirty gallons capacity each, on every floor, with four metal buckets to each cask, unless otherwise specially agreed to by the committee on tariff.

STAND-PIPE.

Warranted, that the assured will maintain a stand-pipe of not less than three inches in diameter, connected with tank on roof (for fire extinguishing only) supplied by force pump and city water supply, with sufficient hose of 2½ inches in diameter, attached on each floor to reach any part of the floor.

N. Y. Standard,

ASSESSMENT, INSTALMENT OR CREDIT CLAUSE.

If any assessment or instalment, or any part of the premium for which credit is given be not paid when due, the whole premium shall be considered earned and be immediately payable, and this policy shall be void so long as any part of such premium remains unpaid.

NEW YORK AUTOMATIC SPRINKLERS CLAUSE.

It is hereby made a condition of this policy, that the assured shall use due diligence to maintain in full working order during the term of this insurance, the automatic sprinkler equipment now in use and approved by the New York Board of Fire Underwriters, and that no change shall be made in such system without the approval of said board.

If the sprinkler equipment is not automatically connected with a central fire alarm station and approved by said board, the assured shall maintain a watchman during all hours when the premises are not regularly in operation and when closed.

WATCHMAN.

Warranted, that the assured will maintain a night and Sunday watchman, with watch clock having stations on each floor of the building, and a special building call connected with fire department headquarters.

WATCHMAN CLAUSE.—DISTILLERIES.

Warranted by the assured, that at all times when the property herein described shall be idle or inoperative, a constant day and night watchman shall be kept on duty; and provided, that if said property be idle, or shut down, for more than thirty days at any one time, notice must be given this company, and permission to remain idle for such time must be endorsed hereon, or this policy shall immediately cease and determine.

WARRANTEE FOR THEATRES.

Warranted, that the assured will maintain a night and Sunday watchman—with watch clock—having stations on each floor of the building, and on stage, and each gallery, and in property room, repair shop and paint shop, and a special building call connected with fire department headquarters.

Warranted, that the assured will keep a forty gallon barrel filled with water, also six buckets filled with water, one fire extinguisher, two axes and two hooks on each fly gallery on each side of stage, and in property room, repair shop and paint shop.

NEW YORK AUTOMATIC FIRE ALARM CLAUSE.

That portion of the building occupied by the assured and containing the property hereby insured, having been equipped with the automatic fire alarm signal telegraph in accordance with the rules and regulations of the New York Board of Fire Underwriters, and a certificate to that effect issued by authority of said board, this policy is issued at a reduced rate of premium; and in consideration of such reduced rate, it is hereby made a condition of this policy, that the assured shall use due diligence that such equipment shall continue to be maintained during the full term of this insurance. Allowance, 5 cts.

AUTOMATIC FIRE ALARM.—FULL EQUIPMENT.

The entire building containing the property hereby insured, having been equipped with the automatic fire alarm signal telegraph in accordance with the rules and regulations of the New York Board of Fire Underwriters, and a certificate to that effect issued by authority of said board, this policy is issued at a reduced rate of premium, and in consideration of such reduced rate, it is hereby made a condition of this policy, that the assured shall use due diligence that such equipment shall continue to be maintained during the full term of this insurance. Allowance, 10 cts.

EXPOSURE CLAUSE.

It is hereby agreed and understood that in the event of the erection of any new building within eighty feet of the one hereby insured, or containing the property insured under this policy, whether the said new building be owned or controlled by the assured or by some other person, the assured shall, within five days after work shall commence on said new building, notify the agent issuing the policy of the erection of such new building, such notice to be by registered letter, directed to the agent who issues the policy to the post-office where he resides. A failure on the part of the assured to give the notice herein required within five days after the work on such new building shall begin shall render this policy null and void.

MANUFACTURING PRIVILEGE.—N. Y. DRY GOODS DISTRICT.

Privilege is hereby granted to cut, sew, press or manufacture any article of merchandise hereby insured with the use of one stove in such work, provided that the aggregate number of persons employed by the insured in all such work shall be limited to twenty.

VACANCY CLAUSE.

Permission is hereby given that the building described in this policy may remain vacant for _____ from date, to wit: From the _____ day of _____, 189____, to the _____ day of _____, 189____. Additional premium, \$ _____

It is understood and agreed between the company and the assured, that the building shall be under the supervision and care of some competent person during said time, and the doors and windows securely closed and locked, and all rubbish removed from said building; otherwise this policy is null and void.

STEAM THRESHING PERMIT.

In consideration of \$ _____ additional premium, permission is hereby given to use steam power for threshing, for _____ days from date; it being understood that this indemnity is granted upon the terms, conditions and restrictions named in said policy, and also and especially the following:

1st. While there is fire in the furnace of the engine it shall not be located within twenty feet of any building or stack; no combustible litter shall be allowed to collect or remain within fifteen feet of the furnace, a mesh or screen of wire in perfect order and of the best kind for arresting sparks, shall constantly and completely cover the top of the smoke-stack; a competent watchman shall be in constant attendance upon the furnace, and at least three pails, filled with water, and ready for use, shall be kept within ten feet of the furnace.

2d. The boiler and furnace shall be in good condition, and furnished with all modern appliances for safety against fire, and hard or bituminous coal, or hard wood only, shall be used for fuel.

Violation or non-observance of these conditions or restrictions will render this policy void.

DOUBLE LINE.—EXCEPTION CLAUSE.

It is hereby understood and agreed that if, at the happening of any loss or damage by fire to the above-described property during the term of this policy, there should exist other insurance thereon in this company, whether by any other policy or policies, or binder or binders, or any other agreement or agreements, oral or written, whatsoever, this policy shall be null and void, and bear, in consequence, no share or proportion of said loss or damage.

LIVE STOCK CLAUSE.—CONSEQUENTIAL DAMAGES.

It is hereby mutually understood and agreed, that no claim shall be made under this policy for any consequential damages arising from loss of feed, or from exposure, or for any loss not the direct result of fire and exposure thereto to said live stock while contained in premises above described.

REINSURANCE CLAUSE.—STORAGE FORM.

This policy is subject to the same risks, conditions, valuations, and modes of settlement as are or may be assumed by said _____ and loss, if any payable, *pro rata* with the total amount insured by said company, and at same time and in same manner as they pay.

Other reinsurance permitted without notice until required.

This phrase "total amount" is inserted to protect the reinsuring company from assessment for loss upon any special lot of insurance which might be made to lighten unduly the loss to the company reinsured

N. Y. Standard,

MORTGAGEE CLAUSE WITH FULL CONTRIBUTION.

Loss or damage, if any, under this policy shall be payable to _____ as mortgagee [or trustee] as interest may appear, and this insurance, as to the interest of the mortgagee [or trustee] only therein, shall not be invalidated by any act or neglect of the mortgagor or owner of the within described property, nor by any foreclosure or other proceedings or notice of sale relating to the property, nor by any change in the title or ownership of the property, nor by the occupation of the premises for the purposes more hazardous than are permitted by this policy; provided, that in case the mortgagor or owner shall neglect to pay any premium due under this policy the mortgagee [or trustee] shall, on demand, pay the same.

Provided also, that the mortgagee [or trustee] shall notify this company of any change of ownership or occupancy or increase of hazard which shall come to the knowledge of said mortgagee [or trustee], and, unless permitted by this policy, it shall be noted thereon, and the mortgagee [or trustee] shall, on demand, pay the premium for such increased hazard for the term of the use thereof; otherwise this policy shall be null and void.

This company reserves the right to cancel this policy at any time as provided by its terms, but in such case this policy shall continue in force for the benefit only of the mortgagee [or trustee] for ten days after notice to the mortgagee [or trustee] of such cancellation and shall then cease, and this company shall have the right on like notice to cancel this agreement.

In case of any other insurance upon the within described property this company shall not be liable under this policy for a greater proportion of any loss or damage sustained than the sum hereby insured bears to the whole amount of insurance on said property issued to or held by any party or parties having an insurable interest therein, whether as owner, mortgagee or otherwise.

Whenever this company shall pay the mortgagee [or trustee] any sum for loss or damage under this policy, and shall claim that as to the mortgagor or owner no liability therefor existed, this company shall, to the extent of such payment, be thereupon legally subrogated to all the rights of the party to whom such payment shall be made, under all securities held as collateral to the mortgage debt, or may at its option pay to the mortgagee [or trustee] the whole principal due or to grow due on the mortgage with interest, and shall thereupon receive a full assignment and transfer of the mortgage and of all such other securities, but no subrogation shall impair the right of the mortgagee [or trustee] to recover the full amount of _____ claim.

* The difference between the above mortgagee clause and the one immediately following, it lies in the fourth paragraph of the above, which provides that all the insurance, whether by owner or mortgagee, separately or jointly, shall be taken into account in determining the loss under the policy with the above clause.

N. Y. Standard,

MORTGAGEE CLAUSE.

Loss or damage, if any, under this policy shall be payable to as mortgagee [or trustee] as interest may appear, and this insurance as to the interest of the mortgagee [or trustee] only therein shall not be invalidated by any act or neglect of the mortgagor or owner of the within described property, nor by any foreclosure or other proceedings or notice of sale relating to the property, nor by any change in the title or ownership of the property, nor by the occupation of the premises for purposes more hazardous than are permitted by this policy; provided, that in case the mortgagor or owner shall neglect to pay any premium due under this policy the mortgagee [or trustee] shall on demand pay the same.

Provided also, that the mortgagee [or trustee] shall notify this company of any change of ownership or occupancy or increase of hazard which shall come to the knowledge of said mortgagee [or trustee], and, unless permitted by this policy, it shall be noted thereon and the mortgagee [or trustee] shall, on demand, pay the premium for such increased hazard for the term of the use thereof; otherwise this policy shall be null and void.

This company reserves the right to cancel this policy at any time as provided by its terms, but in such case this policy shall continue in force for the benefit only of the mortgagee [or trustee] for ten days after notice to the mortgagee [or trustee] of such cancellation and shall then cease, and this company shall have the right on like notice to cancel this agreement.

Whenever this company shall pay the mortgagee [or trustee] any sum for loss or damage under this policy, and shall claim that as to the mortgagor or owner no liability therefor existed, this company shall, to the extent of such payment, be thereupon legally subrogated to all the rights of the party to whom such payment shall be made, under all securities held as collateral to the mortgage debt, or may at its option pay to the mortgagee [or trustee] the whole principal due or to grow due on the mortgage with interest, and shall thereupon receive a full assignment and transfer of the mortgage and of all such other securities, but no subrogation shall impair the right of the mortgagee [or trustee] to recover the full amount of claim.

MORTGAGEE CLAUSE.—WHEN OWNER HAS NO INTEREST IN THE INSURANCE.

It is hereby specially understood and agreed that this policy is for the benefit of the mortgagee [or trustee] only, the owner having no interest whatever therein.

And it is further agreed that whenever this company shall pay the mortgagee any sum for loss under this policy this company shall at once be legally subrogated to all the rights of the mortgagee [or trustee] under all the securities held as collateral to the mortgage debt to the extent of such payment, but such subrogation shall not impair the right of the mortgagee [or trustee] to recover the full amount of his claim.

USE AND OCCUPANCY FORM.

§ on the use and occupancy of manufacturing buildings situate at and known as

The conditions of this contract of insurance are, that if any of the buildings used for manufacturing purposes or machinery therein, shall be so disabled by fire occurring during the term and under the conditions of this policy, that they are entirely prevented from manufacturing, then this company shall be liable at the rate of dollars per day for each working day of such prevention; and in case the said buildings, or machinery therein, are so disabled by fire as to prevent the full daily average product, this company will be liable per day for that proportion of dollars which the product so prevented from being made bears to the average daily yield previous to the fire, which for the purposes of this insurance is agreed to be the full daily average for working days immediately preceding the fire, not exceeding in either case the amount insured. Loss, if any, to be computed from the day of the occurrence of any fire, to the time when the said buildings or machinery therein could with ordinary diligence and dispatch be repaired or rebuilt and machinery be replaced therein, and not limited to the day of expiration named in this policy.

Permission is given to make additions, alterations and repairs; to run machinery extra hours, but not later than 10 o'clock P. M.; to use kerosene oil for lights, to have and make other insurance without notice until requested.

In case of loss, this policy shall attach on the use and occupancy of each mill in proportion as the value of the daily average product of each mill, for the working days immediately preceding the fire shall bear to the value of the daily average product of all the mills for the same time.

LEASEHOLD INTEREST.—TENANT'S FORM.

On leasehold interest (term of rent from to) in the

It is specially understood and agreed, that if said building shall be totally destroyed by fire this company shall pay the whole amount hereby insured, less a deduction of dollars per month for the time that shall have elapsed between the date of and the date of occurrence of said fire. And in case of such damage by fire as shall, without total destruction, render said building untenable, this company shall pay at the rate of dollars per month, to be computed from the date of such fire to the date at which, by due diligence, the said building could be repaired and rendered fit for occupancy; and in no case shall this company be liable for a greater amount than the sum insured; nor for any loss other than that which may arise under said leasehold interest.

RENT POLICY.

§ on the rent of the story and basement roof building, owned by and occupied by tenants, situated

THE CONDITIONS OF THIS INSURANCE ARE: That if these premises, or any part thereof, shall be rendered untenable by fire, so as to cause an actual loss of rents to the assured, then this company shall be liable for such loss of rents, not exceeding the sum insured. And the assured agree to rebuild or repair said premises in as short a time as the nature of the case will admit. Loss to be computed from the date of the fire, and to cease upon the premises again becoming tenable. And in case the assured shall elect not to rebuild or repair, then the loss of rents shall be determined by the time which would have been required for such purpose.

Other insurance permitted without further notice until required.

TRANSFER OF OWNERSHIP.

New York, 188 . This company hereby recognizes as the owner of the property described in this policy, the title having been transferred to . Loss, if any, payable

TRANSFER OF LOCATION.

New York, 188 . This insurance is hereby transferred to cover property as herein described, while contained in the building situate in occupied

LEASED GROUND CLAUSE.

It is understood that the building described herein stands on leased ground.

AS NOW OR MAY BE HEREAFTER CONSTITUTED.

The words after the name of the assured are frequently used to render needless any indorsement of transfer of interest when additional members are admitted to the firm, or when a portion of the members withdraw—provided the firm name remains unchanged.

COMPLETION CLAUSE.

Privileged for mechanics to complete said building.

DUPLICATE.

This duplicate is issued with the understanding that it is only a copy of the original, and subject to all endorsements and assignments that may be made on said original, and in case of cancellation thereof this duplicate will immediately become null and void.

If any change in policy is needed be careful to bring original also, to avoid delay.

FLOATING POLICY EXEMPTIONS.

It is understood and agreed that any floating policies held by the assured are not to be considered as contributing insurance in case of loss under this policy.

This clause is entered on specific policies to avoid collision between the two classes of insurance in event of fire. The specific insurance is exhausted before the floating insurance applies.

LOSS PAYABLE CLAUSE.

The Insurance Company of hereby consents that the loss, if any, under this policy after the same shall have been ascertained and duly verified by the assured shall be payable to for and on account of said assured.

After a loss has occurred the claim upon the company is frequently assigned to some debtor to diminish or cancel a debt of the assured, or in some cases the claim is sold by the assured. The above is a form of consent given by the company.

WHARF CLAUSE FOR STORAGE INSURANCE.

This policy also covers on said described merchandise ordered to said store, ex (excepting, however, merchandise insured by marine or [and] inland or transportation policies) while on and on streets or piers and bulkheads and [or] during transit to said store for a period not exceeding ten days from date of this policy.

It is customary where the concession is asked for in New York to grant a ten days' privilege under a storage store policy, covering the merchandise on the wharf or pier of unloading. The object of this clause is to keep track of such pier risks and so prevent double lines there.

RATE CLAUSE.

It is expressly stipulated that in event of loss when other insurance on the property exists at a higher rate of premium than in such case this insurance shall contribute in the proportion which the rate of premium paid for this insurance bears to the highest premium rate paid.

It has often happened that after the occurrence of fire the insurance on the property was at various widely differing rates, and this clause has been devised to equalize the liability so that the number of dollars of premium actually paid determines the amount of loss to the company.

SPECIAL LIMITATION OF LIABILITY.

This company is liable under this policy only in case of loss and damage occurring to the property hereby insured, in excess of per cent of the value thereof as determined by careful adjustment, but in no case shall this policy contribute to the payment of such loss or damage with any other policy or insurance not so limited as to liability.

In case such other insurance exceeds at the time of fire such per cent of value of the property insured hereunder this company shall be liable under this policy only for its just proportion of the excess of such loss and damage over and above said other insurance.

It is the special consideration in virtue of which the said assured accepts the above conditions and agrees that the same shall form part of this policy, that a rebate of per cent is deducted from the full premium thereof.

Attached to and forming part of policy No. issued by Ina. Co.

Full premium \$ Rebate \$ \$

The above clause is intended for those establishments where the high rate of hazard, or the large amount of property subject to one fire, prevents the assured from securing full protection. In this case companies may assume lines in an amount above their ordinary limit, with the restriction that the loss must reach a certain proportion of value to render these additional insurances liable. Some companies would prefer the full premium with full liability, others would incline to offer a reduction of rate for the restriction of liability. If such insurance is obtained all the other companies must be advised and an agreement such as the following attached to such of their policies which are without this limitation :

NOTICE OF OTHER INSURANCE UNDER SPECIAL LIMITATION AS TO LIABILITY.

It is understood and agreed that all policies of insurance on the property hereby insured, written under the "Special Limitation of Liability Clause"—that is to say, policies under which by their terms no liability exists for loss and damage unless such loss and damage resulting from any fire shall exceed a stated percentage of the value of the property aforesaid—do not contribute with this policy for the payment of such loss and damage.

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AMERICAN, New York.—E. S. Walker, manager for Ohio, Indiana, Michigan, Wisconsin, Kentucky, Tennessee, Minnesota, Iowa and part of Illinois; Martin Collins, St. Louis, general agent for Missouri, Kansas, Nebraska, Colorado and part of Illinois; Fred. J. Beates, special agent for New Jersey, Pennsylvania and Delaware; Charles E. Mitchell, special agent for New York State; Walter L. Wilcox, special agent for Connecticut; Herbert F. Blood, special agent for Maine, New Hampshire, Vermont, Massachusetts and Rhode Island; J. C. Hunter, special agent for Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama and Louisiana; R. W. Carnes, special agent for Arkansas and Texas; Alfred R. Gurrey, manager, Richard A. Stuart, assistant manager, Pacific Coast. The company operates in all of the United States.

AMERICAN, Newark; N. J.—Balfour, Guthrie & Co., San Francisco, Cal., general agents for Pacific Coast; Geo. W. Spencer, manager; Geo. E. Crater, Denver, State agent for Colorado. Special agents, W. E. Mariner, Kansas City, special for Missouri, Kansas, Nebraska and Iowa. I. W. Holman, Chicago, general agent for Illinois, Wisconsin, Minnesota, Michigan, Indiana and Ohio. E. A. Curtiss, special agent for New England, New York and Middle Atlantic States; headquarters at home office. The company operates in Maine, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, Pennsylvania, Delaware, District of Columbia, Maryland, Ohio, Indiana, Michigan, Illinois, Wisconsin, Minnesota, Iowa, Missouri, Kansas, Nebraska, Colorado, California, Indian Territory, New Hampshire, Utah, Washington and Montana.

AMERICAN, Philadelphia, Pa.—General agents: Eastern department, Chas. P. Frame, New York; Pacific department, Brown, Craig & Co., San Francisco, Cal.; Western department, Chas. E. Bliven, Chicago, Ill.; Middle and Southern departments, Wm. B. Kelly, Philadelphia. Special agents: Eastern department, Daniel Prentice, George P. Peck, A. K. Slade, Jr.; Middle department, Wm. E. Ash, D. Bates Bell; Western department, E. M. Hitchcock, N. B. Jones, C. N. Miller, Waite Bliven, Geo. C. Gill; Southern department, Wm. Douglass, P. L. Davis. The company operates in Maine, Vermont, Rhode Island, Connecticut, Massachusetts, New York, Pennsylvania, New Jersey, Maryland, Delaware, District of Columbia, North Carolina, South Carolina, Florida, Alabama, Mississippi, Louisiana, Ohio, West Virginia, Illinois, Iowa, Michigan, Minnesota, Missouri, Nebraska, Wisconsin, California, Washington, Utah, Arizona, Idaho, Oregon and Montana.

AMERICAN CENTRAL, St. Louis, Mo.—Dave Rorick, general adjuster at large, St. Louis, Mo.; Erwin Ellis, assistant general adjuster, Lebanon, Mo.; John R. Hillman, manager Pacific States and Territories, San Francisco; John T. Fogarty and F. C. Storey, special agents Pacific States and Territories, San Francisco; J. D. Vanvalkenburgh, Jr., general agent Eastern department, Greene, N. Y.; R. A. Race, special agent New York, Greene, N. Y.; W. B. Hammond, special agent Pennsylvania, Harrisburg, Pa.; C. M. Rogers, general agent, and E. D. Kinney, assistant general agent city of Chicago and Cook county, Ill., Chicago, Ill.; Captain

Robert Gray, State agent Illinois, Flora, Ill.; J. C. Ragdale, State agent Minnesota, Wisconsin, Northern Michigan and Iowa, Minneapolis, Minn.; W. E. Richey, special agent Ohio, Indiana, Kentucky and Southern Michigan, Indianapolis, Ind.; J. R. Cravens, State agent Arkansas and Texas, Fort Worth, Tex.; H. G. Keisler, Perryville, Mo., and P. F. Peitz, Washington, Mo., special agents for Missouri; S. F. Woolard, special agent Kansas and Nebraska, Wichita, Kan. The company does business in Arkansas, California, Colorado, Connecticut, District of Columbia, Illinois, Indiana, Iowa, Idaho, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Missouri, Minnesota, Montana, New York, New Mexico, New Jersey, Nebraska, Ohio, Oregon, Pennsylvania, Texas, Utah, Washington, Wisconsin, Wyoming.

BROADWAY, New York.—General agents: Wm. E. Baker, Connecticut; E. W. S. Van Slyke, Pacific Coast. Special agent, H. E. Whitney for Western States. The company operates in California, Connecticut, Maryland, Minnesota, Michigan, Missouri, New York, Pennsylvania, Ohio, Illinois, New Jersey, Wisconsin and Colorado.

BUFFALO GERMAN, Buffalo, N. Y.—Agents at headquarters: Geo. H. Hothelms, registrar; C. Walter Goetz, special agent, and Chas. A. Georger, general agent. The company operates in Connecticut, District of Columbia, Indiana, Iowa, Illinois, Kentucky, Michigan, Massachusetts, Maine, Minnesota, Missouri, New York, Nebraska, Ohio, Pennsylvania; New Jersey, Rhode Island and Wisconsin.

CAPITAL, Concord, N. H.—General agents: C. R. Critchell, Denver, Col., Colorado, Nebraska, Utah; R. S. Critchell, Chicago, Ill., Illinois; O. J. Wiggins, Cincinnati, O., Ohio and Kentucky; Geo. R. Lewis & Co., Minneapolis, Minn., Minnesota and Western Wisconsin; D. K. Courtenay, Milwaukee, Wis., Wisconsin; Chas. Tredick & Co., Philadelphia, Pennsylvania. Special agents: Dexter Chase, Concord, N. H., New Hampshire; Fred W. Cheney, Concord, N. H., New England. The company operates in New Hampshire, Massachusetts, New York, Pennsylvania, Illinois, Ohio, Kentucky, Minnesota, Michigan, Missouri, Wisconsin, Colorado, Nebraska, Utah.

CAPITAL INSURANCE COMPANY, Des Moines, Ia.—H. L. Richardson, O. V. Calhreath, C. B. Smith. The company operates only in Iowa.

CITIZENS, Pittsburgh, Pa.—E. V. Goodchild, special agent at home office for Pennsylvania, New York, New Jersey and Kentucky; Pellet & Hunter, Chicago, general agents for Iowa, Nebraska, Illinois, Missouri, Ohio, Colorado and Michigan. The company operates in Pennsylvania, Ohio, New York, Kentucky, New Jersey, Iowa, Nebraska, Illinois, Colorado, Missouri and Michigan.

CITIZENS, St. Louis, Mo.—Special jurisdiction of home office, all territory. The company operates in Massachusetts, New York, Ohio, Indiana, Illinois, Missouri, Arkansas and Minnesota.

CITY, Pittsburgh, Pa.—M. L. McSweeney, general agent. The company operates only in Pennsylvania.

COLUMBIA, Dayton, O.—E. P. Norris, Columbus, special agent. The company operates in Ohio only.

COMMERCE, Albany, N. Y.—Addison J. Hinman, agency superintendent, Albany, N. Y. The company operates in Maine, Massachusetts, Connecticut, Rhode Island, New York, Pennsylvania, New Jersey, Maryland, Ohio, Wisconsin, Michigan, Kentucky, Missouri, Illinois and Minnesota.

CONCORDIA, Milwaukee, Wis.—C. E. Norbeck, State agent for Wisconsin and Minnesota, La Crosse, Wis.; E. Patchin, State agent for Ohio,

Chardon, O.; Bierce & Sage, general agents for Michigan, Detroit, Mich.; Montgomery & Funkhouser, general agents for Illinois, Chicago, Ill.; C. G. Meeker, Sycamore, Ill., State agent for Indiana and Illinois; O. C. Pond, Sycamore, Ill., special agent for Iowa and Illinois; Madison Nelson, Kansas City, Mo., State agent for Missouri, Kansas and Nebraska; Frank Tombridge, St. Louis, Mo., general agent for St. Louis and part of Missouri; H. O. Morris, Pueblo, Col., general agent for Colorado; M. A. Schumard & Co., Dallas, Tex., general agents for Texas. The company does business in Colorado, Illinois, Indiana, Iowa, Kansas, Massachusetts, Michigan, Missouri, Minnesota, Nebraska, New York, Ohio, Texas and Wisconsin.

CONNECTICUT, Hartford.—A. Williams, manager; W. J. Littlejohn, assistant manager, Western department, Rookery building, Chicago, Ill.; Robert Dickson, manager Pacific department, San Francisco, Cal. Special jurisdiction of home office extends over New England, Middle and Southern States and Canada. Special agents: Henry E. Hess, Boston, Mass.; W. T. Howe, Glen Ridge, N. J.; L. P. Browne, New York city; R. L. Reynolds, Omaha, Neb.; H. F. Webber, Dayton, O.; N. E. Briggs, Chicago, Ill.; M. H. N. Raymond, Grand Rapids, Mich.; Howard De Mott, Minneapolis, Minn.; J. D. Fleming, Kansas City, Mo.; B. J. Smith, San Francisco, Cal.; J. E. Hendry, San Francisco, Cal.; John Marshall, Jr., San Francisco, Cal.; R. M. Thompson, Los Angeles, Cal.; P. D. McGregor, Chicago, Ill.; W. A. Chapman, Milwaukee, Wis.; J. H. Gray, Chicago, Ill.; E. Hall, Portland, Ore.; C. B. Colby, Denver, Col.; S. S. Welpton, Omaha, Neb.; R. S. Odell, Chicago, Ill. The company operates throughout the United States and Canada.

CONTINENTAL INSURANCE CO., New York.—C. H. Dutcher, Brooklyn, N. Y., secretary Brooklyn department; J. J. McDonald, Chicago, Ill., general manager for Western department; G. E. Kline, Chicago, Ill., assistant to general manager; Western department; W. S. Duval, San Francisco, Cal., general manager Pacific Coast department; F. C. Barkman, San Francisco, Cal., assistant to general manager, Pacific Coast department; A. S. Douglas, Middletown, N. Y., for New York and New Jersey; W. T. Teale, Boston, Mass., for New England; T. O. Harris, Philadelphia, Pa., for Eastern Pennsylvania, Maryland, Delaware and District of Columbia; E. E. Cole, 515 Penn avenue, Wilkesburg, Pa., for Western Pennsylvania, Virginia and West Virginia; Wm. G. Whilden, Sr., Greenville, S. C., for Southern States; Chas. F. Hard, Bessemer, Ala., for Alabama; I. Jalonick, Jr., Dallas, Tex., for Texas, Arkansas and Louisiana; J. D. Eaton, box 859, New Haven, Conn., for Connecticut and Vermont; R. H. Dolson, Middletown, N. Y., for New York; F. L. Force, Chicago, Ill., F. T. McAnally, Kankakee, Ill., for Illinois; D. W. Graves, Kansas City, Mo., for Missouri; A. J. Dillon, Rochester, Ind., for Indiana; T. J. Lilly, St. Paul, Minn., for Minnesota; D. D. Daly, St. Paul, Minn., for Minnesota; C. H. Willard, Concordia, Kan., for Kansas; A. G. Evans, Bowling Green, Ky., for Kentucky and Tennessee; Henry Paine, Decorah, Ia., for Iowa; G. S. Morean, Webster City, Ia., for Iowa; D. M. Kelly, Waterloo, Ia., for Iowa; A. Thomas, Atlantic, Ia., for Iowa; A. E. Lillie, Avon, Ill., for Illinois; T. J. Brownfield, Grand Island, Neb., for Nebraska; John F. Murray, Detroit, Mich., for Michigan and Wisconsin; J. R. Bliss, Decatur, Ill., for Illinois; A. A. Maloney, Kansas City, Mo., for Missouri; C. R. Tuttle, box 1432, Denver, Col., for Colorado; C. H. Huntington, Huron, S. Dak., for North Dakota and South Dakota; A. B. Hahn, Richmond, Ind., for Indiana; M. J. Green, care of S. B. Rigger & Co., Portland, Ore., for Oregon and Washington; A. E. Duncan, Salt Lake City, Utah, for Utah; J. M. Hartley, 321 Pine street, San Francisco, Cal.,

for California; J. H. Raine, care of G. G. & W. T. Greene, Milwaukee, Wis., for Wisconsin; A. G. Ridling, San Francisco, for California; S. P. Holmes, Lincoln, Neb., for Nebraska; T. E. Griffith, Kansas City, Mo., for Kansas. The company operates in all the States except Mississippi.

COOPER, Dayton, O.—J. A. Moore, Plymouth, O., general agent for Ohio, Michigan and West Virginia. M. F. Julian, Columbus, special agent in Ohio; John P. Jaminet, Monroe, Mich., special agent in Michigan. The company operates in Ohio, West Virginia and Michigan.

CORCORAN FIRE, Washington, D. C.—Wm. B. Gurley; Baker & Lampton. The company operates only in District of Columbia.

COUNCIL BLUFFS, Council Bluffs, Ia.—A. L. Tullis, general agent, Winterset, Ia.; O. A. McFarland, special agent, New Hampton, Ia.; Del Lake, special agent, Webster City, Ia.; Frank R. Raymond, special agent, Council Bluffs, Ia. The company operates only in Iowa.

CRESCENT, New Orleans.—E. S. Walton, Sardinia, Miss., for Mississippi; L. B. Leigh, Little Rock, Ark., for Arkansas; Chas. Le Sasser, New Orleans, La., for Louisiana; Darby & Rousevell, Muscogee, for Indian Territory. The company does business in Mississippi, Arkansas, Louisiana and Indian Territory.

DAYTON, Dayton, O.—W. J. Wright, special agent. The company operates only in Ohio.

DELAWARE, Philadelphia, Pa.—Special jurisdiction of home office, Pennsylvania, New York, Massachusetts, Rhode Island, Connecticut, New Jersey and District of Columbia. Western department, D. T. Devin, manager, No. 208 La Salle street, Chicago; jurisdiction, Ohio, Indiana, Illinois, Kentucky, Iowa, Missouri, Michigan, Wisconsin, Minnesota, Kansas, Nebraska and Colorado. Pacific department, John R. Hillman, general agent, San Francisco, Cal.; jurisdiction, California, Idaho, Montana, Utah and Washington. Southeastern department, Clarence Knowles, Atlanta, Ga.; jurisdiction, Virginia, North Carolina, South Carolina, Georgia, Alabama, Mississippi, Louisiana and Tennessee. Southwestern department, Trezevant & Cochran, general agents, Dallas, Tex.; jurisdiction, Texas, Oklahoma Territory and New Mexico. Special agents: Middle and Eastern States, J. Campbell Haywood, W. F. Dearborn, Jr. Western department, S. E. Cate, John S. Barrow, George Devin, H. H. Whitlock. Pacific department, John T. Fogarty, F. C. Storey. Southeastern department, W. E. Chapin, Robt. B. Hall. Company operates in States above named.

DETROIT FIRE AND MARINE, Detroit, Mich.—Special agent, Chas. A. Reekie, Detroit, Mich., for Michigan, Ohio and Indiana; John Mulville, Detroit, Mich., for Illinois, Minnesota, Wisconsin, Iowa, Nebraska, Colorado and Missouri. The company operates in Michigan, Minnesota, Wisconsin, Ohio, Indiana, Kentucky, New York, Iowa, Missouri, Illinois, Nebraska, Colorado and Massachusetts.

DUBUQUE FIRE AND MARINE, Dubuque, Ia.—H. G. Wernimont, general agent; James A. Hayes, special agent for Southern Iowa; H. L. Schrup, special agent for Northwestern Iowa; John Falen, special agent for Northeastern Iowa. The company operates in Iowa and Illinois.

DUTCHESS COUNTY MUTUAL, Poughkeepsie, N. Y.—S. Lloyd Greene, special agent. The company operates in New York State only.

EAGLE, New York.—George H. Dayton, general agent at home office. The company operates in New York, Illinois, Ohio, Iowa, Missouri, Nebraska, Minnesota, Michigan, District of Columbia, Connecticut and Colorado.

EQUITABLE FIRE AND MARINE, Providence, R. I.—Special jurisdiction of home office, New England, Middle States and District of Columbia. W. H. Boutelle, A. R. Thommasson, special agents. For Western States, see Rhode Island Underwriters Association, composed of Equitable Fire and Marine and Merchants Insurance Companies of Providence. The company does business in Maine, Massachusetts, Connecticut, Rhode Island, New York, Pennsylvania, Delaware, New Jersey, Maryland, Kentucky, California, Illinois, Ohio, Missouri, Iowa, Minnesota, Michigan, West Virginia, Nebraska.

EUREKA FIRE AND MARINE, Cincinnati, O.—H. C. Klockslem, State agent for Michigan; H. E. Boring, special agent for Ohio. The company operates in Illinois, Ohio and Michigan.

FARMERS, Cedar Rapids, Ia.—Special agents at headquarters, J. K. Powers, J. W. Stahl, J. J. Clements and J. W. Doughty. Company operates in Iowa only.

FARMERS AND MECHANICS, Alexandria, Va.—Stewart & Co., general agents, Alexandria, Va.

FARMERS AND MERCHANTS INSURANCE COMPANY, Lincoln, Neb.—W. H. England, attorney and adjuster. Special agents, C. K. Huntington, L. F. Bowdish, B. S. Wadsworth. The company does business in Nebraska only.

FARRAGUT, New York.—H. L. Millard, general agent for Kansas and Nebraska. The company operates in Texas, Kansas, Washington, Nebraska, Connecticut, Ohio, Minnesota, Missouri, Pennsylvania, Tennessee, Colorado, California, District of Columbia, Illinois, Louisiana, Michigan, Massachusetts and New York.

FIRE ASSOCIATION, Philadelphia, Pa.—William H. Cunningham, Chicago, Ill., general agent for Illinois, Iowa, Wisconsin, Minnesota, Michigan and Dakota; Martin Collins, St. Louis, Mo., general agent for Missouri, Kansas, Colorado, Nebraska and Wyoming Territory; Trezevant & Cochran, Dallas, general agents for Texas, Arkansas, New Mexico, Oklahoma and Louisiana; Paul M. Nippert, San Francisco, general agent for Pacific Coast States, Montana and Utah. Special jurisdiction of home office, New England, New York, Middle and Southern States (except above mentioned), Ohio, Indiana, Kentucky and Tennessee. Special agents, S. G. Parsons, Boston, for New England; I. H. Lindsley, Syracuse, for New York State; Ben F. Walker, Washington, D. C., for Pennsylvania and Maryland; Loyd Bailly, Philadelphia, Pa., for States of New Jersey and Delaware; J. A. Weisland, Westerville, O., for Ohio, Indiana and West Virginia; John D. Bradford, Atlanta, Ga., for Southern States. The association operates in all States except Mississippi and Florida.

FIRE INSURANCE COMPANY OF THE COUNTY OF PHILADELPHIA, Philadelphia, Pa.—Thompson Derr & Bro., Wilkesbarre, general agents for Pennsylvania. The company operates in Pennsylvania, New York, Massachusetts, Ohio, Illinois, Michigan, Delaware, District of Columbia and New Jersey.

FIRE UNDERWRITERS ASSOCIATION, Concord, N. H.—Does a local business only.

FIREMANS FUND, San Francisco, Cal.—Eastern department, C. W. Kellogg, Boston, Mass., manager; A. K. Simpson, assistant manager; C. L. Hedge, J. W. Little, A. M. Wood, agents. Central department, Thomas S. Chard, Chicago, Ill., manager; S. T. Collins, assistant manager; G. C. Cooper, W. H. Fulton, S. G. Chard, C. L. Seeley, W. A. Wittick, A. F. Bullard, M. H. Carr, A. W. Westgate, agents. Pacific Coast (Home Office department), F. H. McElhone, F. G. White, L. M. Seaton, R. P. Fabj, R. D. Hunter and G. H.

Mendell, Jr., H. G. Halsey, agents. The company operates in Arizona, California, Colorado, Connecticut, District of Columbia, Delaware, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Montana, Michigan, Minnesota, Missouri, Maine, Maryland, Massachusetts, Nevada, New York, New Jersey, New Hampshire, Nebraska, New Mexico, Oregon, Ohio, Rhode Island, Pennsylvania, Texas, Utah, Washington, Wisconsin, West Virginia, North Dakota, South Dakota and Wyoming.

FIREMENS, Baltimore, Md.—Robert Whitaker, general agent. The company operates in Maryland, District of Columbia, Illinois, Massachusetts, Minnesota, Missouri, New York, Pennsylvania and Michigan.

FIREMENS INSURANCE COMPANY, Chicago, Ill. Chas. Treddick & Co., Philadelphia, general agents for Pennsylvania; Chas. G. Bates, Minneapolis, special agent for Minnesota. The company operates in Illinois, Iowa, Pennsylvania and Minnesota.

FIRST NATIONAL, Worcester, Mass.—C. L. Stowell, Rochester, N. Y., general agent for New York and Pennsylvania. The company operates in the New England States, New York, Pennsylvania and Illinois.

FOREST CITY FIRE, Rockford, Ill.—Special agents, E. A. Gardner, Rockford, Ill., and E. D. Porter, Springfield, Ill.; J. A. Parsons, Jacksonville, Ill., adjuster. The company operates in Illinois alone.

FRANKLIN INSURANCE COMPANY, Evansville, Ind.—John R. Eagle, Indiana. The company operates only in Indiana.

FRANKLIN FIRE, Philadelphia, Pa.—Thompson, Derr & Bro., Wilkesbarre, Pa., Pennsylvania State agents. Special agents: O. W. Palmer, Elmira, N. Y., and Edgar P. Luce, Utica, N. Y., for New York and New Jersey; C. B. Fowler, Boston, Mass., for New England States; L. D. Moody, Warren F. Thummel, Isaac C. Hayes and E. P. Foreman, department of the West; Wm. M. Shumaker, for Pennsylvania. Special jurisdiction of home office, Philadelphia and vicinity. The company does business in California, Colorado, Connecticut, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Utah, Washington, Montana, West Virginia and Wisconsin.

GEORGIA HOME, Columbus, Ga.—J. B. Kimball, Louisiana, Alabama, Georgia (part), Mississippi, Tennessee; R. P. Spencer, Georgia (part), North Carolina, South Carolina, Virginia, Washington, D. C., West Virginia; W. Hugh Hunter, special agent for Texas. The company operates in Alabama, Georgia, Louisiana, Mississippi, North and South Carolina, Texas, Tennessee, Virginia, West Virginia and District of Columbia.

GERMAN FIRE, Peoria, Ill.—Frank E. Chase, for Illinois, Wisconsin and Indiana; J. A. Raines, for Iowa. The company operates in Illinois, Wisconsin, Indiana, Iowa and Colorado.

GERMAN, Pittsburgh, Pa.—General agent for Middle Pennsylvania, H. J. Sheaffer, Harrisburg, Pa. Special jurisdiction of home office, Allegheny county, Pa., A. H. Eckhart, special agent at Pittsburgh. The company operates in New York, Pennsylvania, Ohio, Illinois, Missouri, Michigan, Wisconsin.

GERMANIA, New York City.—E. G. Halle, manager Western department, Chicago; Cesar Bertheau, manager Pacific Coast department, San Francisco, Cal. Special agents, Eastern department, L. F. Goule, H. L. Kreuder, R. G. Ley-

poldt, L. Pfingstag, G. C. Steins, E. H. Hornbostel. Western department, J. H. Caswell, general adjuster; H. W. Clayton, F. W. Armstrong, Chas. R. Orth, C. H. Lord, H. W. Lyman, G. Mueller, Edw. E. Foster, F. S. Penfield. The company does business in Maine, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, Illinois, Iowa, Indiana, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, Tennessee, West Virginia, Wisconsin, Alabama, Georgia, Louisiana, South Carolina and Virginia.

GIRARD FIRE AND MARINE, Philadelphia, Pa.—William E. Rollo & Son, managers for Western States, Chicago, Ill.; Chas. M. Sloan, Mount Holly, N. J., general agent for New Jersey; Mann & Wilson, San Francisco, Cal., general agents for Pacific States; A. B. Gillett & Co., Hartford, Conn., general agents for New England States. Special jurisdiction of home office, Pennsylvania, Delaware, Maryland, Washington, D. C., and New York. Special agents: Henry M. Gratz, Philadelphia, Pa.; J. B. Hall, Chicago, Ill. The company operates in California, Connecticut, Illinois, Iowa, Indiana, Kansas, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Jersey, Ohio, Pennsylvania, Wisconsin, Maryland, New York, Georgia, Louisiana, Tennessee, Nevada, Washington, D. C., Colorado, Montana and Washington.

GLENS FALLS INSURANCE COMPANY, Glens Falls, N. Y.—J. L. Whitlock, manager Western department, 208 La Salle street, Chicago; territory west of Ohio and east of Rocky Mountains; Voss, Conrad & Co., general agents, San Francisco, for California; T. C. Powell, general agent, Little Rock, for Arkansas; Crosby Dawkins, general agent, Jacksonville, for Florida. Special agents: W. B. Durand, Oberlin, O.; Carroll L. DeWitt, Indianapolis, Ind.; F. W. Little, Pleasant Hill, Mo.; F. W. Little, Jr., Omaha, Neb.; George W. Wyatt, Syracuse, N. Y.; George B. Greenslet, E. W. West and N. R. Gourley, Glens Falls, N. Y. The company operates in Alabama, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Utah, Virginia and Wisconsin.

GRAND RAPIDS FIRE, Grand Rapids, Mich.—T. Y. Bronn, general agent, New York; W. L. Althouse, special agent, Michigan, Wisconsin, Minnesota, Colorado; W. E. Golden, special agent, Illinois, Missouri, Iowa, Nebraska. The company does business in Michigan, Wisconsin, Minnesota, Illinois, Missouri, Nebraska, Iowa, Colorado, New York.

GRANITE STATE FIRE, Portsmouth, N. H.—James A. Jones, general agent, Detroit, for Michigan; Geo. E. Macomber, special agent, Augusta, for Maine; M. R. Buxton, Nashua, N. H., for Massachusetts, Rhode Island and Connecticut; W. G. Everett, Manchester, N. H., for New Hampshire and Vermont. The company does business in Maine, New Hampshire, Massachusetts, Rhode Island, Connecticut, Vermont, Pennsylvania, Michigan.

GREENWICH, New York.—C. D. Barton, general agent, home office; C. L. Stowell, general agent, Rochester, N. Y., for New York and Pennsylvania; Livingston Mims, general agent, Atlanta, Ga., for North Carolina, South Carolina, Georgia, Alabama, Florida, Mississippi, Arkansas and Indian Territory; Louis Monroe, general agent, New Orleans, La., for Louisiana; C. E. Angel & Co., general agents, New Orleans, La., for Texas; C. M. Miller, special agent, Omaha, Neb., for Iowa, Minnesota, Kansas, Colorado,

Nebraska, North Dakota, South Dakota and Missouri; R. D. Harvey, Chicago, Ill., special agent for Illinois, Indiana, Kentucky, Michigan, Wisconsin and Ohio; Brown, Craig & Co., general agents, San Francisco, Cal., for California, Washington, Montana and Utah. The company does business in Connecticut, Massachusetts, New Jersey, Texas, Kansas, Illinois, Michigan, Ohio, Vermont, Iowa, Pennsylvania, Wisconsin, Minnesota, Louisiana, Missouri, Tennessee, Maine, Montana, Washington, Utah, Colorado, Nebraska, North Dakota, South Dakota, Rhode Island, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Indiana, Kentucky, Arkansas, Indian Territory, California, Virginia, District of Columbia and New York.

HANOVER FIRE, New York.—Thomas James, Eastern general agent, Eastern and Middle States; Howard P. Gray, Western general agent, Western States, Kentucky and West Virginia; Cesar Bertheau, manager Pacific coast; Dr. Samuel B. Clark, Eastern States; Charles H. Hibbs, New York, Delaware and Maryland; George M. Elwood, New York (Western); Geo. C. McGilvray, Virginia, North Carolina, South Carolina and Georgia; F. A. McCarroll, Alabama, Mississippi, Louisiana and Texas; J. O. Wright, Chicago, Ill.; L. M. Wise, Michigan; C. W. Higley, Minnesota, Wisconsin and North Dakota; H. C. Stuart, Iowa, Kansas, Missouri, Nebraska, Colorado, New Mexico, Wyoming; M. R. McGill, Ohio, Kentucky and West Virginia; Frank Ritchie, Indiana and Illinois; R. H. Wilson, New Jersey. The company does business in all the States and territories excepting Arizona, Arkansas, Idaho, Nevada, Oklahoma, South Dakota, Oregon, New Hampshire and Vermont.

HARTFORD FIRE, Hartford, Conn.—G. F. Bissell, Chicago, Ill., manager of Western department; Belden & Cotran, San Francisco, Cal., managers of Pacific department; Young & Hodges, managers Metropolitan department. General agents and adjusters: Eastern and Middle States, J. H. Leighton, J. S. Catanach, A. D. Birchard, Frederick Samson, W. S. Dewey, C. H. Van Antwerp, Chas. E. Coit. Southern States, D. E. Grove, J. W. Covington, Dallas, Tex.; Thomas Eggleston, Atlanta, Ga.; W. R. Prescott and John B. McDonald, special agents, Atlanta, Ga.; E. H. Jones, special agent, Selma, Ala., Canada, Peter A. McCallum, Toronto, Ont. The company operates throughout the United States and Canada.

HAWKEYE, Des Moines, Ia.—A. L. Abbey, special agent, Northeastern Iowa; W. V. Willcox, special agent, Northwestern Iowa; B. T. Hough, special agent, Southeastern Iowa; J. E. Miller, Southwestern Iowa, and James Cunningham, special agent, State of Iowa. The company does business in Iowa only.

HOME INSURANCE COMPANY, New York.—Eastern department, Moses R. Emerson, general agent for New England States, Boston, Mass.; F. A. Wetherbee, assistant general agent for New England States, Boston, Mass.; Elmer B. Bailey, special agent for Vermont, Burlington, Vt.; Howard P. Moore, special agent for Eastern New York, home office; Louis S. Morgan, State agent for New York, Syracuse, N. Y.; John B. Coffin, special agent for Western New York, Rochester, N. Y.; Wm. C. Gerring, State agent for New Jersey, Newark, N. J.; Chas. K. Francis, general agent for Pennsylvania, Delaware, Maryland and District of Columbia, Philadelphia, Pa. Southern department, John W. Pearce, general agent for South Carolina, Georgia and Florida, Atlanta, Ga.; Ed. E. Pashall, special agent, Atlanta, Ga.; A. G. Hancock, State agent for Virginia and North Carolina, Richmond, Va.; Kalford Kreb, State agent for Alabama and Mississippi, Birmingham, Ala.; John L. Wood, State agent for Louisiana and

Texas, Dallas, Tex. Adjusting department, H. S. Durand, general adjuster, Chicago, Ill. Arkansas, L. B. Leigh, State agent, Little Rock, Ark. Colorado, Nebraska, New Mexico and Wyoming, P. W. Plank, State agent, Lincoln, Neb. Illinois, E. V. Munn, State agent, Chicago, Ill.; J. B. Wharton, special agent, Jacksonville, Ill. Indiana, John B. Cromer, State agent, Indianapolis, Ind. Iowa, Wm. E. Page, State agent, P. O. drawer 1140, Des Moines, Ia.; T. T. Armstrong, special agent, Fort Dodge, Ia. Kansas, Orrin T. Welch, State agent, Topeka, Kan. Kentucky and Tennessee, W. H. Wheeler, State agent, Horse Cave, Ky. Michigan, Andrew J. Sinclair, State agent, Grand Rapids, Mich. Minnesota, North Dakota and South Dakota, Wm. D. Lowry, State agent, Minneapolis, Minn.; W. A. Rogers, special agent, Minneapolis, Minn. Missouri, Walter Scott, State agent, Kansas City, Mo. Ohio and West Virginia, Charles E. Dosser, State agent; Albert P. Ross, special agent; Charles A. Ross, special agent, Columbus, O. Wisconsin, Theodore W. Briggs, State agent, Appleton, Wis. Pacific department, Arthur E. Magill, general agent, San Francisco, Cal., for Arizona, California, Idaho, Montana, Nevada, Oregon, Utah and Washington. The company does business in all States and territories in the United States excepting the territories of Alaska, Indian and Oklahoma.

HOME, Omaha, Neb.—T. S. Denman, adjuster, Omaha; A. C. Hall, special agent, Hastings; D. J. Drebert, special agent, West Point; W. W. Roberts, special agent, Creighton. The company operates only in Nebraska.

HOME MUTUAL, San Francisco, Cal.—I. S. Watson, for Oregon, Washington, Idaho and Montana; F. G. White, for Colorado, Utah and Wyoming; N. C. Farnum, for California and Arizona; W. F. Westlake, for California. The company operates in California, Oregon, Washington, Montana, Idaho, Utah, Colorado, Wyoming and Arizona.

HUMBOLDT, Allegheny, Pa.—R. C. Beatty, general agent. The company operates only in Pennsylvania.

INSURANCE COMPANY OF NORTH AMERICA, Philadelphia, Pa.—J. F. Downing & Co., Erie, Pa., general agents for the Western States; C. C. Kimball, Hartford, manager for the New England States; C. R. Knowles, Albany, manager for New York State; Edward S. Gay, Atlanta, Ga., manager for the Southern States; James D. Bailey, San Francisco, manager for the Pacific coast; Robert Hampson, general agent for Canada. Special jurisdiction of home office, Pennsylvania, Delaware, Maryland, New Jersey, Virginia, New York city, Long Island and Boston. The company operates in all the States and territories.

INSURANCE COMPANY OF THE STATE OF PENNSYLVANIA, Philadelphia, Pa.—C. C. Kimball, manager, Hartford, Conn., for Massachusetts, Connecticut, Vermont and Maine; R. S. Critchell, Chicago, manager for Western department, embracing Illinois, Missouri, Ohio, Kentucky, Minnesota, Wisconsin, Michigan, Iowa and Tennessee; C. R. Critchell, Denver, Col., manager for Colorado, Nebraska and Kansas. The company operates in Maine, Vermont, Massachusetts, Connecticut, New York, Pennsylvania, Maryland, Ohio, Illinois, Michigan, Wisconsin, Missouri, Kentucky, California, Minnesota, Nebraska, Iowa, Colorado, Kansas and New Jersey.

IOWA FIRE, Des Moines, Ia.—W. W. Birdsall, Northern Iowa; J. H. Rowantree, Southeastern Iowa; John M. Zane, Southwestern Iowa. The company operates only in Iowa.

MACON FIRE, Macon, Ga.—John J. McKay, special agent for South Carolina and Georgia;

Boyd & Conway, special agents for Alabama; C. E. Angell & Co., New Orleans, general agents for Louisiana and Texas; F. O. Bertrand, special agent for Louisiana and Texas.

MANUFACTURERS AND MERCHANTS, Pittsburgh, Pa.—Western department, Pellet & Hunter, 177 La Salle street, Chicago, general agents for Colorado, Illinois, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio and Wisconsin. The company operates in New York, Pennsylvania, Ohio, Illinois, Michigan, Wisconsin, Colorado, Iowa, Nebraska, Minnesota and Missouri.

MECHANICS INSURANCE COMPANY, Philadelphia, Pa.—Pellet & Hunter, Chicago, general agents for Illinois, Missouri, Ohio, Michigan, Wisconsin, Nebraska, Iowa and Colorado; Chas. N. Grover, special agent for Pennsylvania, New York and New Jersey. The company operates in Pennsylvania, New York, New Jersey, Massachusetts, Rhode Island, Illinois, Missouri, Minnesota, Ohio, Michigan, Wisconsin, Nebraska, Iowa and Colorado.

MECHANICS AND TRADERS, New Orleans, La.—F. G. Snyder, Louisville, for Kentucky and Tennessee; B. E. Dryden, Atlanta, for Georgia and Alabama; Geo. W. Dewey & Bro., Goldsboro, N. C., for North and South Carolina; A. A. Weille, Vicksburg, for Louisiana and Mississippi; C. C. Emery, Waco, for Texas; L. B. Leigh, Little Rock, for Arkansas; Frank C. Sturtevant, Utica, N. Y., for New York and New Jersey; R. C. Christopher, Philadelphia, for Pennsylvania and District of Columbia; N. A. McNeil, Lime Rock, Conn., for Connecticut. The company operates in North Carolina, South Carolina, Georgia, Alabama, Mississippi, Louisiana, Kentucky, Tennessee, Arkansas, Texas and Illinois (Chicago only), managed from the home office; Northern department, Connecticut, New York, New Jersey, Pennsylvania and District of Columbia, managed by Howe, Post & Co., 135 and 137 Broadway, New York.

MERCANTILE, Boston, Mass.—R. W. Hosmer & Co., Chicago, general agents for Western States; H. W. Brown & Co., Philadelphia, for Southeastern States; Frank T. Noble, Augusta, for Maine. Company operates in Maine, New Hampshire, Connecticut, Rhode Island, Massachusetts, New York, Pennsylvania, Maryland, District of Columbia, Illinois, Michigan, Wisconsin, Kentucky, Minnesota, Iowa, Nebraska, Colorado, Ohio and Missouri.

MERCHANTS, Newark, N. J.—Thomas C. Parsons, Cleveland, O., general agent for Ohio and Michigan; Frank D. Rogers, Chicago, manager Western department, including Illinois, Iowa, Wisconsin, Minnesota, Missouri, Kansas, Colorado, Nebraska; J. C. Whitner & Co., Atlanta, general agents for Tennessee and New Orleans, La.; Trezevant & Cochran, Dallas, Tex., general agents for Texas; Geo. Easton & Co., San Francisco, general agents for the Pacific Coast. Special jurisdiction of home office, Maine, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Kentucky. Special agents: Edward C. North, New England States, Boston, Mass.; H. Freeman, Neefus, Delaware, New York and District of Columbia; H. J. Clinger, Pennsylvania; Joseph O. Nichols, New Jersey; O. A. Forbes, Ohio and Michigan, Parson's department; W. B. Humphrey; D. B. Phelps and H. Grenell, Western department. The company operates in Maine, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Ohio, Michigan, Illinois, Iowa, Wisconsin, Minnesota, Missouri, Kansas, Nebraska, Colorado, Kentucky, Tennessee, Louisiana, California, Texas, New Hampshire and West Virginia.

MERCHANTS, Providence, R. I.—J. J. Hayes, Chicago, Ill., for Central States. Special jurisdiction of home office, New England, Middle States and Maryland. Arthur S. Burrington and Irving A. Brown, special agents at home office. The company operates in Maine, Vermont, Rhode Island, Connecticut, New Jersey, West Virginia, New York, Pennsylvania, Delaware, Maryland, Kentucky, Ohio, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, California and Nebraska.

MICHIGAN FIRE AND MARINE, Detroit, Mich.—T. Y. Brown, New York, general agent New York city; John C. Paige, manager, Boston; George P. McMahon, special agent; C. W. Leish, special agent; N. A. Bloom, special agent. The company operates in Indiana, Illinois, Wisconsin, Minnesota, Missouri, Kentucky, Iowa, Colorado, Massachusetts, Nebraska, Michigan, Ohio, Connecticut, New York and Pennsylvania.

MILWAUKEE MECHANICS, Milwaukee, Wis.—T. Y. Brown, 26 Pine street, New York city, general agent for New York, Connecticut, Massachusetts, New Jersey and Pennsylvania; Lucius E. Parsons, Society for Savings building, Cleveland, O., general agent for Ohio; Karl Schmemmann, Detroit, Mich., general agent for Michigan; W. C. Bredenhagen, St. Paul, Minn., general agent for Minnesota, North and South Dakota; Long & Tower, Massachusetts building, Kansas City, Mo., general agents for Missouri, Kansas, Nebraska, Iowa and Colorado; G. L. Crandall, 3 Carondelet street, New Orleans, general agent for Louisiana, Alabama, Kentucky and Tennessee; H. A. Noite, State agent and adjuster for Wisconsin (address Milwaukee); Geo. W. Mansfield, superintendent of agencies; H. A. Morgan, State agent and adjuster for Illinois and Indiana (address Upper Alton, Ill.); Geo. B. Walton, special agent and adjuster Eastern department; F. W. Canfield, Cleveland, O., special agent for Ohio; Theo. L. Spangenberg, Bunker Hill, Ill., special agent for Illinois; E. H. Kinney, Columbus, Ind., special agent for Indiana; W. E. Spangenberg, manager, Chicago. The company does business in Wisconsin, Illinois, Michigan, Indiana, Ohio, Kentucky, Tennessee, Alabama, Louisiana, Missouri, Kansas, Colorado, Nebraska, Iowa, Minnesota, North and South Dakota, New York, Connecticut, Massachusetts, Pennsylvania and New Jersey.

MONONGAHELA, Pittsburgh, Pa.—The company operates only in Pennsylvania.

MUTUAL FIRE INSURANCE COMPANY, New York.—C. D. Cox, for Illinois, Michigan and Minnesota; Bingham, Douglass & Squires, for Ohio; North & Vidder, for Buffalo, N. Y.; W. H. Brewster, Jr., for Massachusetts; Hart & Sullivan, for Kentucky; E. W. S. Van Slyke, for California; Voorhees, Gregory & Fowler, for Kansas City, Mo.; James M. Burns, for St. Joseph, Mo. The company does business in California, Delaware, Georgia, Illinois, Kentucky, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Jersey, New York, Ohio, Pennsylvania, Vermont, Washington and Wisconsin.

NASSAU FIRE, Brooklyn, N. Y.—Business chiefly local. No agents.

NATIONAL FIRE, Hartford, Conn.—Western department, Fred S. James, general agent; Geo. W. Blossom, assistant general agent; Chas. Richardson, second assistant general agent; office, 174 La Salle street, Chicago. Pacific department, Geo. D. Dornin, manager; Geo. W. Dornin, assistant manager; office, 409 California street, San Francisco. C. A. Banter, for Ohio; B. B. Broomell, for Oregon, Washington, Idaho and Montana; L. B. Colby, for Minnesota, North and South Dakota; F. F. Chandler, for Cook county, Ill.; Theo. Gardner, for Kansas and Nebraska; W. A. Lyons, for Illinois and Indiana; L. H. Lord, for California

and Nevada; H. H. Lee, for Utah, Colorado, New Mexico and Arizona; W. F. Moss, for Kentucky and Tennessee; C. H. McNelly, for California; S. H. Row, Hert Row, for Michigan; W. H. Snider, for Missouri and Iowa; J. D. Turner, for Iowa; J. M. Wallace, Ohio. The company operates in all States except West Virginia, Florida, Mississippi and Delaware.

NEW ENGLAND, Rutland, Vt.—Leon G. Bagley, general agent. The company operates only in Vermont.

NEW HAMPSHIRE FIRE, Manchester, N. H.—Geo. E. Kendall, special agent for New England; Henry Norden, Rochester, N. Y., W. G. Fitch, Philadelphia, Pa., special agents for the Middle States; Frank W. Sargeant, special agent for New Hampshire and Maine; H. M. Russell, Chicago, Ill., special agent for Illinois, Kentucky, Indiana, Ohio, Michigan and Wisconsin; C. M. Rogers and E. D. Kinney, Chicago, Ill., general agents for Cook county, Ill.; Frederick W. Lee, Omaha, Neb., special agent for Iowa, Minnesota, Nebraska, Missouri, Kansas and Colorado. The company does business in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, District of Columbia, Illinois, Indiana, Ohio, Michigan, Kentucky, Iowa, Missouri, Minnesota, Nebraska, Kansas, Colorado and Wisconsin.

NEWARK FIRE, Newark, N. J.—Thos. C. Parsons, general agent for Ohio and Michigan; E. S. Wheeler, special agent for Indiana, Illinois, Iowa, Missouri, Wisconsin, Minnesota and Colorado. The company operates in Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Iowa, Missouri, Wisconsin, Minnesota, Michigan and Colorado.

NIAGARA FIRE INSURANCE COMPANY, New York.—West Pollock, secretary city department; Wm. Ellsworth, assistant secretary city department; James T. Howes, superintendent Eastern department; Henry T. Alley, superintendent Southern department; B. G. Stark, manager Western department, New York; I. S. Blackwelder, general agent Western department, Chicago; R. S. Critchell, manager Cook county, Ill.; Cobb, Wilson & Co., Denver, Col., general agents for Colorado, New Mexico, Wyoming and Black Hills district, South Dakota; J. P. Singleton, special agent for Kentucky, Tennessee and West Virginia; W. O. Chamberlin, J. Geo. Stauffer, W. L. Steele, Geo. W. Reynolds, Otto Schupp, H. C. Henley, M. E. Lease, Archie Martin, special agents Western department; H. R. Turner, general agent Eastern States, except Connecticut; N. A. McNeil, Connecticut State agent; A. P. Howes, general agent New York State; Chas. Selvaige, New Jersey State agent; R. C. Christopher, general agent Pennsylvania, Maryland, Delaware and District of Columbia; Geo. W. Dewey, general agent Southern States; George H. Frost, manager Mississippi and Louisiana department; Stephen French, special agent Texas and Arkansas. The company operates in all States except Oregon.

NORTH RIVER, New York city.—M. F. P. Holgate. The company operates in New York, New Jersey and Illinois.

NORTHWESTERN NATIONAL, Milwaukee, Wis.—Jas. Hainsworth, for Illinois and Indiana; Geo. W. Russell, for Michigan, Ohio, Kentucky and Tennessee; John D. McCune, for Kansas and Missouri; L. S. Higgins, for Iowa, Nebraska and South Dakota; Fred Theis, Jr., for New York, Pennsylvania, Connecticut and Maryland; Geo. W. Coon, for Wisconsin and Minnesota. The company does business in Wisconsin, Illinois, Ohio, Michigan, Indiana, Minnesota, Kansas, New York, Missouri, Massachusetts, Tennessee, Kentucky, Nebraska, Pennsylvania, Colorado, Connecticut, Maryland, Maine, Rhode Island, New Jersey, Dis-

trict of Columbia, South Dakota, California, Washington, Utah, Texas, Arkansas and Iowa.

OAKLAND HOME, Oakland, Cal.—Special agents: C. M. Sanford, Kansas City, Mo., for Kansas, Nebraska and Missouri; W. L. Fairbrother, Lincoln, Neb.; M. H. Merrill, Portland, Ore., for Oregon and Washington; C. P. Lyndall, Los Angeles, Cal., for California; J. V. Spear, Dallas, for Texas. The company operates in California, Oregon, Washington, Texas, Kansas, Nebraska and Missouri.

OHIO, Dayton, O.—Geo. H. Bell, special agent for Ohio. The company operates in Ohio and Cook County, Ill.

OMAHA, Omaha, Neb.—Fred C. Shields, W. F. Abbey and C. T. Beagley. The company operates in Nebraska only.

ORIENT, Hartford, Conn.—Byron W. French, Chicago, Ill., general agent Western department; Geo. F. Ashton, San Francisco, Cal., general agent Pacific department; Trezevant & Cochran, Dallas, Tex., general agents Southwestern department. Home office and Eastern department cover Eastern States, Middle States, Maryland, District of Columbia, Virginia, North Carolina, Louisiana, South Carolina, Georgia, Florida, Alabama and Mississippi. Western department covers Western States and territories. Pacific department covers Pacific slope west of Rocky Mountains and Sandwich Islands. Southwestern department covers Texas, Arkansas and Northern Louisiana. Special agents: Alfred Kemp, general agent, Hartford, Conn.; Sullivan S. Child, Harrisburg, Pa.; Horace B. Clapp, Boston, Mass.; T. C. Alexander, Albany, N. Y.; John C. Ruse, Atlanta, Ga. Western department, J. H. Stevenson, Stuart W. French, Ralph Crable, C. L. Kingsley, Walter E. Witherbee, E. R. Wetmore. Pacific department, Geo. F. Ashton, manager. The company operates in all the States and territories except Delaware, Tennessee, Kentucky, North Dakota, South Dakota and in the Sandwich Islands.

PACIFIC FIRE, New York.—G. W. Goodsell, Bridgeport, Conn., for Connecticut and Massachusetts; W. H. McKennan, Utica, N. Y., for New York; Arthur J. Wright, Newton, Ia., for Iowa and Illinois; Geo. H. Rehm, Indianapolis, Ind., for Indiana; Philip S. Brown, Jr., Kansas City, Mo., for Missouri and Kansas; Ashford Wood, Muskegon, Mich., for Michigan; D. Bachelder, Galion, O., for Ohio; C. W. Kiffie, St. Paul, Minn., State agent for Minneapolis and Western Wisconsin. The company does business in California, Colorado, Connecticut, Indiana, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Wisconsin, Washington, D. C.

PENNSYLVANIA, Philadelphia, Pa.—J. F. Downing, manager for the Western department; George Talcott, assistant manager, Erie, Pa.; Chas. H. Barry, assistant manager, Erie, Pa.; L. J. Bonar, Mansfield, O., State agent for Ohio and West Virginia; C. R. Loomis, special agent for Ohio and West Virginia, Painesville, O.; W. J. Wood, State agent, Terre Haute, Ind.; D. W. Burrows, State agent, Chicago, Ill.; H. H. Rassweiler, State agent, for Illinois, Chicago, Ill.; T. F. Croskey, special agent for Illinois, Chicago, Ill.; W. N. Johnson, general adjuster, Dixon, Ill.; P. T. Kelsey, assistant general agent for Cook County, Ill., Chicago, Ill.; J. C. Myers, State agent, Detroit, Mich.; J. H. Warner, State agent, Milwaukee, Wis.; Geo. C. Mair, special agent for Wisconsin, Milwaukee, Wis.; H. C. Alverson, State agent, Des Moines, Ia.; D. R. Davenport, State agent, Mooroe City, Mo.; J. M. Richards, State agent for Kansas, Nebraska and South Dakota, Omaha, Neb.; C. F. Hardy, special agent for Kansas,

Oklahoma Territory and Indian Territory, Topeka, Kan.; H. T. Fowler, State agent for Minnesota and North Dakota, Minneapolis, Minn.; M. V. B. Benson, State agent for Colorado, Wyoming and New Mexico, Denver, Col.; Scull & Field, Boston, Mass., managers for New England States; John J. Downey, Boston, Mass., special agent; I. L. Holt, special agent, Meriden, Conn., for Connecticut; George Neiley, Hartford, Conn., special agent; Charles R. Knowles, Albany, N. Y., manager New York State agency; John H. Scotland, Albany, special agent for Eastern New York: M. O. Dennis, Batavia, N. Y., special agent for Western New York; Wm. S. Banta, New York, agent for Metropolitan district; Charles P. Frame, New York, general agent for Northern New Jersey; Richard R. Miller, Camden, N. J., general agent for Southern New Jersey; Thompson Derr & Bro., Wilkesbarre, Pa., State agents for Pennsylvania; William L. Jones, agent, Pittsburgh, Pa.; E. J. Richardson & Sons, State agents, Baltimore, Md.; Brown, Craig & Co., San Francisco, Cal., managers Pacific coast; Frank C. Case, St. Louis, Mo., manager for the States of Texas and Arkansas; Vernon C. Dargan, special agent, Dallas, Tex. Southern department, Clarence Knowles, manager; W. E. Chapin, Robt. B. Hall and C. M. Benjamin, special agents, Atlanta, Ga. The company operates in New York, New Jersey, Delaware, Maryland, West Virginia, California, Nevada, Texas, Arkansas, Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Washington, Connecticut, Ohio, Indiana, Michigan, Illinois, Wisconsin, Montana, Kentucky, Tennessee, Missouri, Kansas, Iowa, Nebraska, Utah, North and South Dakota, Minnesota, Colorado, Wyoming, New Mexico, Idaho, Virginia, North Carolina, South Carolina, Georgia, Florida, Louisiana, Alabama, District of Columbia and Pennsylvania.

PEOPLES FIRE, Washington, D. C.—McLachler & Batchelder, Chas. H. Porcher. The company operates only in District of Columbia.

PETERSBURG SAVINGS AND INSURANCE COMPANY, Petersburg, Va.—Edward W. Butcher, secretary; William H. Scott, assistant secretary. The company operates in Virginia, and does a small brokerage business in large cities.

PHOENIX, Hartford, Conn.—H. M. Magill, Cincinnati, O., general agent for Western department, embracing Western, Northwestern and Southwestern States and Territories; Theo. F. Spear, Cincinnati, O., assistant general agent for Western Department: A. E. Magil, San Francisco, Cal., general agent, Pacific department; Gerald E. Hart, general manager, Montreal, Canada. Special jurisdiction of home office, New England, Middle and Southern States. General agent, W. C. Goodrich, Philadelphia, Pa. Special agents: William P. Lamb, Rochester, N. Y.; C. W. Van Valkenburgh, Batavia, N. Y.; Geo. W. Hinkley, Boston, Mass.; J. M. Carothers, Albany, N. Y.; Wm. M. Gage, Syracuse, N. Y.; A. N. Williams, Hartford, Conn.; J. S. Raine, Atlanta, Ga.; Edward Milligan, Philadelphia, Pa. The company operates in all States except Virginia, New Hampshire and Delaware.

PROVIDENCE-WASHINGTON, Providence, R. I.—C. L. Whittemore, Chicago, manager, Western department; J. H. Norton, Jacksonville, general agent for Florida; C. D. Dunlop, Denver, manager, Montana department; Geo. F. Ashton, San Francisco, manager, Pacific department; D. G. Morgan, Wheeling, general agent for West Virginia; Marshall J. Smith & Co., New Orleans, general agents for Louisiana; C. E. Angell & Co., New Orleans, general agents for Texas; W. H. Smith and A. B. Fowler, Boston, J. H. De Wolf, Providence, special agents for New England; A. G. Beale, Syracuse, special agent for New York; A. W. Ray, Philadelphia, special agent for Pennsylvania, New Jersey, Maryland and District of Columbia. The company does business in Maine, New Hampshire, Massa-

chusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, West Virginia, Florida, Louisiana, Texas, Ohio, Kentucky, Illinois, Michigan, Minnesota, Wisconsin, Iowa, Missouri, Nebraska, Kansas, Colorado, New Mexico, Wyoming, Montana, Washington, California, Arizona, Utah, District of Columbia.

READING FIRE, Reading, Pa.—Special agents: Howard S. Stephenson, Northwestern States; Giles K. Tinker, New England States; John S. Thompson, Pennsylvania, New Jersey and West Virginia. Special agents and adjusters: F. L. Curtis, New York State; D. F. Markley, Pennsylvania; George W. Billman, Pennsylvania, New Jersey and West Virginia. The company does business in Pennsylvania, Massachusetts, West Virginia, Indiana, Kentucky, New York, New Jersey, Michigan, Connecticut, Illinois, Rhode Island, District of Columbia, Missouri, Wisconsin.

RELIANCE, Philadelphia, Pa.—H. A. Knabe, special for New England and New York State; D. T. Derin, manager, Western department, including States of Ohio, Illinois, Michigan, Wisconsin, Missouri, Iowa, Minnesota, Colorado, Kansas and Nebraska. Special jurisdiction home office, Pennsylvania. The company does business in Massachusetts, Connecticut, Rhode Island, New York, Pennsylvania, Ohio, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Colorado, Kansas, Nebraska.

RHODE ISLAND UNDERWRITERS ASSOCIATION, Providence, R. I.—John J. Mayberry, resident secretary, Chicago; Jas. J. Hayes, special agent, Wisconsin, Minnesota; A. N. Evans, special agent, Ohio, Kentucky, West Virginia; M. S. Moore, special agent, Illinois, Iowa, Nebraska, Missouri. The company does business in Michigan, Iowa, Minnesota, Wisconsin, Kentucky, West Virginia, Illinois, Missouri, Nebraska, Ohio.

ROCHESTER GERMAN, Rochester, N. Y.—O. C. Kemp, Chicago, general agent for Western department, including Illinois, Iowa, Indiana, Michigan, Minnesota, Wisconsin, Ohio, Missouri, Nebraska, Kentucky. Special jurisdiction of home office, New York, Pennsylvania, New Jersey, Connecticut, Massachusetts, Maine, District of Columbia. Special agents at home office: J. F. Camp, L. E. Loewenguth and Chas. G. Miller. The company operates in New York, Pennsylvania, New Jersey, Connecticut, Massachusetts, Maine, Illinois, Iowa, Indiana, Michigan, Minnesota, Wisconsin, Ohio, Missouri, Nebraska, Kentucky, North Carolina, District of Columbia.

ROCKFORD, Rockford, Ill.—J. W. Price, Michigan; F. F. Gordon, Wisconsin and Minnesota; W. B. Smith, Indiana; R. Jackson, Jas. Dolan, W. H. Faville, R. S. Carter, S. K. Hatfield, Illinois. The company does business in Michigan, Indiana, Illinois, Wisconsin, Minnesota, Iowa and Nebraska.

SAGINAW VALLEY FIRE AND MARINE, Saginaw, Mich.—J. G. Milligan, Chicago, State agent for Illinois; P. R. Proctor, special agent for Michigan. The company operates in Michigan and Illinois.

ST. PAUL FIRE AND MARINE, St. Paul, Minn.—General agents: Benj. Marot, Dayton, O., for Ohio, Kentucky, Michigan, Indiana, West Virginia, Pennsylvania and New York; Texas, S. O. Cotton & Bro., Houston, Tex.; Colorado, New Mexico and Wyoming, Cobb, Wilson & Co., Denver, Col.; Mann & Wilson, San Francisco, Cal., for California; E. J. Richardson & Sons, Baltimore, for Maryland; Thos. H. Houghton, Charlotte, N. C., for North Carolina; F. Tupper & Co., Charleston, S. C., for South Carolina; Geo. O. Carpenter & Son, Boston, for Massachusetts, Connecticut, Maine and Rhode Island; John M. Whiton, New York city, for New York city and vicinity and New Jersey. Special jurisdiction of home office: Minnesota, North and South Dakota, Wisconsin, Illinois,

Iowa, Kansas, Tennessee, Missouri, Nebraska, Montana, Washington, Georgia, Upper Peninsula of Michigan, Utah, Alabama and Florida. Special agents: A. W. Perry and R. A. Overpeck, St. Paul, for Minnesota; Geo. C. Mott, St. Paul, for Montana, Washington and North and South Dakota; John McClure, St. Paul, for Upper Michigan, Minnesota and Wisconsin; Thomas L. Maitland, Chicago, for Illinois and Iowa; L. V. Babcock, Kansas City, Mo., for Nebraska, Kansas and Missouri; H. W. Young, Atlanta, Ga., Alabama, Florida and Georgia. The company operates in Alabama, California, Colorado, Connecticut, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Kansas, Maine, Michigan, Massachusetts, Minnesota, Missouri, Montana, Maryland, Nebraska, New York, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, West Virginia, Utah, Wisconsin, Wyoming and Washington.

SECURITY FIRE INSURANCE COMPANY, Cincinnati, O.—H. C. Klocksiem, State agent for Michigan; H. E. Boning, special agent for Ohio. The company operates in Illinois, Ohio and Michigan.

SECURITY, New Haven, Conn.—General agents: Chas. E. Sheldon, Rockford, Ill., general agent for Illinois, Michigan, Wisconsin, Minnesota, Iowa and Nebraska; Thompson Derr & Bro., Wilkesbarre, Pa., State agents for Pennsylvania. Special agents: J. W. Hemingway, New Haven, Conn., for New York State; Simon E. Tift, Wilkesbarre, Pa. The company operates in Connecticut, District of Columbia, Iowa, Illinois, Massachusetts, Michigan, Minnesota, New York, Nebraska, Ohio, Pennsylvania, Wisconsin and West Virginia.

SHAWNEE, Topeka, Kan.—A. M. Moore, Atchison, special agent for Kansas; W. M. Bronson, Guthrie, special agent for Oklahoma Territory. The company operates in Kansas and Oklahoma Territory.

SOUTHERN, New Orleans, La.—T. T. Hay & Bro., Raleigh, N. C., North and South Carolina; E. A. Van Trump, Wilmington, Delaware; Crosby Dawkins, Taxville, Eastern Florida, T. C. Powell, Little Rock, Arkansas; Wm. Bull, St. Louis, Missouri and Kansas; Beers, Kenison & Co., Galveston, Texas; C. R. Critchell, Denver, Colorado; all are general agents, and E. S. Walton, special agent for Missouri. The company does business in Delaware, North and South Carolina, Florida, Tennessee, Alabama, Mississippi, Louisiana, Missouri, Kansas, Colorado, Texas, Arkansas and Colorado.

SPRING GARDEN, Philadelphia, Pa.—Special agents: H. P. Wood, Boston, for New England; C. W. Reed, Philadelphia, for New York, Ohio and Western Pennsylvania; F. H. Rush, Philadelphia, for Eastern Pennsylvania, New Jersey, Delaware and District of Columbia; E. W. Dreher, Chicago, for Illinois, Indiana, Michigan, Missouri, Wisconsin and Minnesota; G. B. Armitage, Denver, for Colorado, Kansas, Nebraska and Utah; Thompson Derr & Bro., Wilkesbarre, district agents for Northeastern Pennsylvania. The company does business in Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, Ohio, Indiana, Illinois, Michigan, Minnesota, Wisconsin, Missouri, Kansas, Nebraska, Colorado and Utah.

SPRINGFIELD FIRE AND MARINE, Springfield, Mass.—A. J. Harding, manager, and A. F. Dean, assistant manager of Western department, Chicago, Ill.; John J. Babcock, Philadelphia, Pa., and S. J. Whyte, Springfield, Mass., general agents; A. G. Dugan, San Francisco, Cal., general agent for Pacific coast. Special agents: E. J. Haynes, Jr., New York city; J. B. Cornish, S. B. Reed, assistant, Boston; F. G. Row, Lansing, Mich.; W. J. Mackay, Niagara Falls, N. Y.; Geo. W.

Adams, Meadville, Pa.; J. B. Ezell, Columbia, S. C.; J. H. Hellekson, Indiana; C. F. Persch, Illinois; R. T. Huggard, Ohio; H. P. Hubbell, Minnesota; W. E. Higbee, North and South Dakota; C. W. Fracker, Iowa; N. S. Harding, Nebraska; W. Fulton, general adjuster, Kansas; Edwin Fulton, Missouri; W. A. Childress, Texas and Arkansas; W. H. Lininger, Kansas; H. E. Pitkin, Wisconsin; C. L. French, Illinois; L. W. Anderson, Iowa; Charles G. Wade, Colorado; T. R. Smallwood, Texas and Arkansas. The company operates in Connecticut, District of Columbia, Florida, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, California, Oregon, Washington, Arizona, Nevada, Arkansas, Colorado, Illinois, Indiana, Iowa, Indian Territory, Kansas, Minnesota, Missouri, Montana, Nebraska, Oklahoma Territory, South Dakota, Texas, Utah, Wisconsin, Wyoming, North Dakota, New Mexico.

STATE, Salem, Ore.—Toll Thompson, E. Bankson, E. F. Parkhurst, J. J. Sturgill, S. E. Smith. The company operates in Oregon, Washington and Idaho.

SUN, San Francisco, Cal.—Special agents, Pacific Coast, A. B. Vogel and C. A. Layng. The company transacts fire and marine insurance in California, Oregon, Washington, Nevada, Utah, Wyoming, Montana, Texas and Colorado, and marine insurance only in New York, Ohio, Michigan, Illinois, Wisconsin and Minnesota.

SUN MUTUAL, New Orleans, La.—Thames & Batre, Mobile, Ala., general agents for Alabama; W. B. Kleia, Vicksburg, Miss., special agent for Mississippi and Louisiana; P. A. Florian, Dallas, Tex., special agent for Texas and Arkansas; A. H. Harris, New Orleans, La., special agent at home office. The company does business in Alabama, Arkansas, Florida, Illinois, Louisiana, Mississippi, New York, South Carolina, Texas, District of Columbia.

TEUTONIA FIRE AND MARINE INSURANCE COMPANY, Dayton, O.—Special agent, L. F. Creamer. The company operates in Ohio, Indiana, Michigan and West Virginia.

TRADERS, Chicago, Ill.—Cobb, Wilson & Co., general agents, Denver, Col.; Voss, Conrad & Co., general agents, San Francisco; J. J. Berne, general adjuster, Chicago; J. C. Dietz, Chicago, special agent for Iowa; H. W. Colson, special agent, Minneapolis, for Minnesota, North and South Dakota and Wisconsin; W. B. Humphrey, Topeka, Kan., special agent for Kansas and Nebraska; Chas. A. Kelley, Terre Haute, Ind., special agent for Indiana; H. S. Seage, Lansing, Mich., special agent for Michigan; W. B. Smith, San Antonio, Tex., special agent for Texas; R. S. Sayres, Wilmington, O., special agent for Ohio; J. W. Vinson, Jerseyville, Ill., special agent for Illinois and Missouri; G. P. Theobald, Louisville, Ky., special agent for Kentucky; J. P. Howlett, Portland, Ore., special agent for Oregon and Washington. The company does business in California, Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Montana, North Dakota, Nebraska, New Mexico, Oklahoma, Ohio, Oregon, South Dakota, Texas, Utah, Wisconsin, Wyoming, Washington.

UNION, Philadelphia, Pa.—General agents, Geo. Easton & Co., San Francisco, Cal., for California and Utah; A. W. Sewall, Boston, Mass., special agent for New England department, including Massachusetts, Connecticut, Rhode Island and Maine; W. D. Bradshaw, Chicago, general agent for Western department, including Illinois, Iowa, Missouri, Minnesota, Wisconsin, Nebraska and Colorado; D. E. Julian, Columbus, O., special agent for Central department, including Ohio,

Kentucky and Michigan; M. J. Nowlan, Philadelphia, Pa., special agent for Home department, comprising Pennsylvania, New Jersey, Delaware, Maryland and District of Columbia. The company operates in Pennsylvania, New York, Massachusetts, Maine, Connecticut, Rhode Island, Ohio, Kentucky, Michigan, New Jersey, Maryland, Illinois, Minnesota, Missouri, Wisconsin, Iowa, Nebraska, Delaware, California, Colorado, District of Columbia and Utah.

UNITED FIREMENS, Philadelphia, Pa.—Cesar Bertheau, San Francisco, general agent for Pacific Coast; Henry A. Kuabe, special agent (home office) for New England and New York; James G. Beath, special agent (home office) for Pennsylvania, New Jersey, Maryland and District of Columbia. Cecil A. Hall, Chicago, special agent for Western States. The company does business in Rhode Island, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Missouri, California, Washington, Montana, Utah, Kentucky and District of Columbia.

VIRGINIA FIRE AND MARINE INSURANCE COMPANY, Richmond, Va.—T. T. Hay, Raleigh, N. C.; Alf. Paull, Wheeling, W. Va.; John R. Triplett, St. Louis, Mo.; A. S. Pratt & Sons, Washington, D. C. The company operates in Virginia, North Carolina, West Virginia, Missouri, Tennessee and District of Columbia.

WESTCHESTER, New York.—Wm. H. Van Every, Troy, N. Y., general agent; M. O. Brown, Chicago, Ill., general agent Western department, embracing all the Western States; James N. Reynolds, San Francisco, Cal., general agent for Pacific Coast; Charles Matthews, Jr., Atlanta, Ga., general agent for Southern States. Special jurisdiction of home office, all the territory except that embraced in Western department. Special agents, Western department: George W. Reynolds, Quincy, Ill.; H. C. Keller, Leavenworth, Kan.; E. B. Underhill, Cleveland, O.; F. D. Cross, Boston, Mass.; for New England, E. M. McChesney, Syracuse, N. Y., for Western New York; S. T. Carter, Middle States; J. W. DeMott, Rockville Centre, for Long Island and New Jersey; H. B. Hobbins, Madison, Wis. The company operates in Maine, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, District of Columbia, Virginia, South Carolina, Georgia, Ohio, Indiana, Illinois, Michigan, Kentucky, Tennessee, Wisconsin, Minnesota, Missouri, Nebraska, North Carolina, Louisiana, Alabama, Texas, Kansas, West Virginia, Oregon, Montana, Colorado, California, Washington, Iowa, Indian Territory and Oklahoma Territory.

WESTERN, Pittsburgh, Pa.—Special direction of secretary of company, over whole field. Company operates only in the cities of Chicago, Detroit, Minneapolis, St. Paul, Cincinnati and Dayton in the West; and in New York and Massachusetts under special direction of Chas. P. Frame, general agent, New York city; also operates in Pennsylvania and District of Columbia. The company does business in Pennsylvania, New York, Massachusetts, Ohio, Michigan, Illinois, Minnesota and District of Columbia.

WILLIAMSBURG CITY, Brooklyn, N. Y.—Jesse Watson, general agent, 150 Broadway, N. Y. General agency has jurisdiction of all agency business of the company, one State agency covering Pacific Slope. Home office has jurisdiction of all States and Territories. The company operates in Alabama, California, Colorado, Connecticut, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Virginia, West Virginia, Wisconsin and District of Columbia.

FIELD MEN OF FOREIGN COMPANIES.

ATLAS ASSURANCE COMPANY, London, Eng.—J. M. Neuberger, Chicago, Ill., United States manager; Frank J. Devlin, manager; T. H. Palache, assistant manager, Pacific Coast department, San Francisco, Cal.; Frank Lock, New York, general agent Eastern States. Special agents: A. Wampach, Cincinnati, O.; Frank D. Lyon, Omaha, Neb.; E. J. Jolly and Kenneth Watson, San Francisco. This company operates in Illinois, Indiana, Ohio, Michigan, Minnesota, Nebraska, Missouri, Kentucky, Pennsylvania, Delaware, New Jersey, Maryland, District of Columbia, Wisconsin, Tennessee, Iowa, Kansas, Colorado, Massachusetts, Rhode Island, Connecticut, California, Washington, Montana, Utah, Wyoming, Nevada, Idaho, New Mexico, Arizona and Alaska.

BRITISH AMERICA ASSURANCE COMPANY, Toronto, Can.—Geo. W. Hayes, manager Minnesota, Wisconsin, North Dakota, South Dakota, Iowa, Northern Illinois; H. T. Lamey, manager Colorado, Montana, Kansas, Wyoming, Nebraska, Utah, New Mexico; Geo. J. Dexter, manager Texas, Louisiana, Arkansas, Oklahoma; L. M. Tucker, manager Georgia, Florida, Mississippi, South Carolina, Alabama; A. R. Currey, manager California, Idaho, Washington, Arizona. Specials: F. K. Locke, New York State; Grayson Burruss, Virginia, West Virginia, Maryland, District of Columbia; B. A. Richardson, Indiana, Southern Illinois; H. B. Hart, Southern Ohio and Kentucky; W. R. Townley, Missouri; J. M. Biggett, Eastern Pennsylvania, New Jersey and Delaware; L. Wiederhold, Jr., Western Pennsylvania; Fred B. Carpenter, general agent Connecticut, Maine, Massachusetts, Rhode Island, New Hampshire, Vermont; H. Kitson, Michigan and Northern Ohio. The company operates in all the States except Tennessee, Oregon, North Carolina, Nevada.

CALEDONIAN INSURANCE COMPANY, Edinburgh, Scotland.—Thos. F. Goodrich, Geo. C. Howe, Chas. H. Post, managers for United States department, New York; West Pollock, secretary city department; James T. Howes, superintendent Eastern department; Henry T. Alley, superintendent Southern department; B. G. Stark, manager Western department; I. S. Blackwelder, general agent Western department Chicago, Ill.; R. S. Critchell, manager for Cook county, Ill.; Cobb, Wilson & Co., Denver, Col., general agents for Black Hills district of South Dakota, Colorado, New Mexico, Wyoming; J. P. Singleton, special agent for Kentucky, Tennessee and West Virginia. Special agents Western department: W. O. Chamberlain, J. Geo. Stauffer, W. L. Steele, Geo. W. Reynolds, Otto Schupp, H. C. Henley, M. E. Lease, Archie Martin; H. R. Turner, general agent for Eastern States, except Connecticut; N. A. McNeil, Connecticut State agent; A. P. Howes, general agent for New York State; Chas. Selva, New Jersey State agent; R. C. Christopher, general agent for Pennsylvania, Maryland, Delaware and District of Columbia; Geo. W. Dewey, general agent for Southern States; Geo. H. Frost, manager for Mississippi and Louisiana department; Stephen French, special agent for Texas and Arkansas. The company operates in all the States.

COMMERCIAL UNION ASSURANCE COMPANY, LIMITED, London, Eng.—Charles Sewall, United States manager; A. H. Wray, United States assistant manager; J. H. Kattenstroth, local secretary, New York. Jurisdiction embraces all the United States east of the Rocky mountains. H. C. Eddy, Chicago, Ill., resident secretary for Western department; S. S. Frowe, Chicago, Ill., assistant resident secretary for Western department; C. J. Holman, Denver, Col., resident secretary for Northwestern department; C. W. DuBois, Syracuse, N. Y., adjuster for New York and Pennsylvania; Ellwood

Hendrick, Albany, N. Y., special agent for New York; C. Elliot Beers, Philadelphia, Pa., special agent for Pennsylvania; W. T. Furness, Elizabeth, N. J., special agent for New Jersey and Connecticut; W. R. Royce, Richmond, Va., special agent for Virginia, Maryland and North Carolina; Ed J. Watkins, special agent for Kentucky, Tennessee and West Virginia; T. J. Munn, Austin, Tex., special agent for Texas; E. B. Hopwood, Newark, N. J., special agent for Long Island; E. C. Brush, Boston, Mass., special agent for Massachusetts, Rhode Island, New Hampshire, Vermont and Maine; H. Yancey, Rome, Ga., special agent for South Carolina and Georgia; P. B. Martin, Springfield, O., special agent for Ohio; E. C. McCauley, Terre Haute, Ind., special agent for Indiana and Michigan; R. B. Carson, Chicago, Ill., special agent for Illinois; W. F. Hawhurst, Detroit, Mich., special agent for Michigan and Lower Wisconsin; E. W. Allabach, Des Moines, Ia., special agent for Iowa and Missouri; G. G. Williams, Minneapolis, Minn., special agent for Minnesota and Upper Wisconsin; C. F. Mullins, San Francisco, Cal., manager for Pacific coast branch. Jurisdiction embraces Oregon, California, Nevada, Utah, Washington, Arizona, Alaska, Montana, British Columbia and Hawaiian Islands. The company operates in all States except Mississippi, Florida, Arkansas, Indian Territory and Oklahoma Territory.

GUARDIAN ASSURANCE COMPANY, London.—All business in the United States reported to H. E. Bowers, 50 Pine street, New York, manager in United States. Branch manager, Western department, N. W. Meserole, Chicago, Ill., for Michigan, Illinois, Missouri, Iowa, Kansas, Nebraska, Colorado and Indiana. Special agents in Mr. Meserole's territory are: I. P. Hutchinson, Chicago; A. W. Haight, Detroit, Mich.; Chas. M. Vogel, Kansas City, Mo.; Louis H. Wolfe, Topeka, Kan. General agents: Wm. J. Landers, San Francisco, Cal., for California, Idaho, Montana, Nevada, Oregon, Utah, Washington and Arizona. Special agents in Mr. Landers' territory are W. R. Williams, W. A. Matthews, W. H. Raymond, C. W. Kibbee, St. Paul, Minn., for Minnesota, Wisconsin and South Dakota; H. O'Kane, Columbus, O., for Ohio; E. F. Renshaw, Brooklyn, N. Y. Special agents: J. L. Kendig, Boston, Mass., for Massachusetts, Connecticut, Rhode Island, New Hampshire and Vermont; Wm. Allen, Jr., Portland, Me., for Maine; G. E. Congdon, Syracuse, N. Y., for New York; G. W. Kear, Scranton, Pa., for Pennsylvania; J. T. Follette, Newport, Ky., for Tennessee, Kentucky and West Virginia; T. G. Peyton, Richmond, Va., for Virginia, North and South Carolina, Georgia and Alabama; J. B. Hereford, Jr., Dallas, Tex., for Texas. The company operates in Maine, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, District of Columbia, Maryland, Kentucky, South Carolina, Tennessee, West Virginia, Georgia, Illinois, Indiana, Iowa, Michigan, Missouri, Ohio, Wisconsin, Minnesota, California, Nevada, Oregon, Utah, Washington, Colorado, Alabama, Virginia, North Carolina, Kansas, New Hampshire, Texas, Idaho, Montana, Arizona, Nebraska and South Dakota.

HAMBURG-BREMEN FIRE INSURANCE COMPANY, Hamburg.—F. O. Affeld, 22 Pine street, New York, manager in United States; H. C. Buchenberger, associate manager in United States. Territorial jurisdiction of United States head office, entire United States. Rudolph Herold, Jr., San Francisco, general agent, Harry C. Boyd, assistant general agent for the Pacific coast; Witkowsky & Affeld, Chicago, general agents for the Western States; John W. Gordon, Richmond, general agent for Virginia, West Virginia, Maryland and North Carolina; W. F. Pattillo, Atlanta, general agent

for the South; Starkweather & Shepley, Providence, general agents for Rhode Island and Connecticut; R. L. Hill, special agent. New York city; H. B. Washington, special agent, Chicago; T. J. Munn, special agent, Austin, Tex. The company operates in all the States and Territories except Delaware, Vermont and Ohio.

HAMBURG-MAGDEBURG, Hamburg, Germany.—Gutte & Frank, San Francisco, managers on the Pacific Coast. The company operates in California, Oregon, Washington, Utah, Montana, Idaho and Wyoming.

LANCASHIRE INSURANCE COMPANY, Manchester, England.—E. Litchfield, manager New York office; J. H. Stoddart, assistant manager. Manager Western department, Dan Winslow, Chicago, Ill.; assistant manager, J. C. Corbet. Special agents: John Hoover, Ohio and West Virginia; C. E. Lemon, Indiana; H. M. Wardle, Michigan; E. D. Clarke, Wisconsin; Geo. W. Hayes, Jr., Illinois; R. L. Bruen, Minnesota, North and South Dakota; Geo. R. Crosley, Iowa; A. G. Sanderson, Missouri and Kansas; W. C. Cree, Nebraska, Colorado and Wyoming. Manager Southern department, Milton Dargan, Atlanta, Ga.; Chas. C. Fleming, assistant manager, Atlanta, Ga., for Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Texas, Arkansas, Kentucky, Tennessee, Indian and Oklahoma Territories. Special agents: David M. Young, Louisville, for Kentucky and Tennessee; Jas. S. Middleton, Atlanta, for Virginia, North Carolina, South Carolina, Georgia and Florida; E. W. McCerren, Jackson, Miss., for Alabama, Mississippi and Louisiana; V. C. Dargan, Dallas, Tex., for Texas, Arkansas, Indian and Oklahoma Territories. Mann & Wilson, managers San Francisco, Cal.; A. L. Berry, special agent for New England; J. D. Kinsman, special agent for New York; J. C. Clirehugh, special agent for New Jersey; W. D. Jenckes, special agent for Pennsylvania, Maryland, Delaware and District of Columbia. The company operates in Alaska, Alabama, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Jersey, New Hampshire, New York, New Mexico, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, West Virginia, Washington, Wisconsin, Wyoming.

LION FIRE INSURANCE COMPANY, London, England.—M. Bennett, manager; J. H. Brewster, assistant manager, Hartford, Conn.; John A. Kelly, Hartford, Conn., for Ohio, West Virginia, Indiana, Kentucky and Tennessee; Harry Y. Chatterley, Hartford, Conn., for Southern States; Wm. F. Rice, Hartford, Conn., for New England and Middle States; C. F. Mitchell, Chicago, Ill., for Northwestern States; Edgar E. Snider, Davenport, Ia., for Nebraska, Illinois and Iowa; Wm. Sexton, San Francisco, Cal., resident manager Pacific department; R. C. Midcraft, sub-manager Territorial jurisdiction, California, Washington, Montana, Colorado, Utah, Idaho, Wyoming, New Mexico, Arizona and Hawaiian Kingdom. Special agents: T. H. Williams, San Francisco; W. J. Pascoe, San Francisco; T. N. Camfield, San Francisco; B. B. Broomell, special agent for Oregon, Montana, Washington and Idaho. The company does business throughout the United States.

LIVERPOOL AND LONDON AND GLOBE, Liverpool.—Henry W. Eaton, resident manager; G. W. Hoyt, deputy manager. Head office in the United States, No. 45 William street, New York, embraces New York, New England, Pennsylvania, New Jersey, Delaware, Maryland, District of Columbia, Ohio, Indiana, Kentucky, Tennessee, Arkansas,,

Virginia, West Virginia, North Carolina and South Carolina; J. M. DeCamp, Cincinnati, O., general agent for Ohio, Indiana, Kentucky, Tennessee, Arkansas and West Virginia; Davenport & Co., Richmond, Va., general agents for Virginia and North Carolina. Special agents in territory of head office: J. W. Churchill, J. B. Kremer, D. J. DeCamp, G. A. Furness, W. B. Seaman, Chas. F. Hawes, C. D. Thompson, J. C. Ingraham and W. O. Robb; W. S. Warren, Chicago, Ill., resident secretary for Colorado, Illinois, Iowa, Kansas, Michigan, Minnesota, Missouri, Dakota, Montana, Wyoming, New Mexico, Utah, Indian Territory and Nebraska. Special agents: E. H. Berry, M. S. Woodward, F. O' L. Buck, M. W. Van Valkenburg, Joseph J. Windle, Chas. D. Haven, San Francisco, Cal., resident secretary for California, Nevada, Oregon, Idaho, Arizona and Washington; Henry V. Ogden, New Orleans, La.; resident secretary, Clarence F. Low, assistant secretary, J. G. Pepper, deputy assistant secretary, for Alabama, Florida, Georgia, Louisiana, Mississippi and Texas; B. H. Abrams, Atlanta, special agent for Georgia, Florida and Alabama; J. S. Alfred, New Orleans, special agent for Mississippi and Louisiana; D. E. Groove and C. H. Pescay, Dallas, special agent for Texas.

LONDON AND LANCASHIRE FIRE INSURANCE COMPANY, Liverpool, Eng.—A. G. McIlwaine, Jr., manager, New York; J. S. Belden, manager, Western department, Chicago; Wm. Macdonald, manager, Pacific department, San Francisco; G. Herbert Ide, special agent for Maine, New Hampshire, Massachusetts, Rhode Island and Connecticut; Frank S. Grenelle, special agent for New York; Wm. Blair, general agent; C. J. Mahoney, special agent for New Jersey, Pennsylvania, Maryland, District of Columbia; Robert A. Hancock, special agent for North Carolina, South Carolina, Louisiana, Alabama, Georgia; Henry W. Gray, Jr., special agent for Virginia, West Virginia, Kentucky, Tennessee; F. A. Meinel, Chicago, Ill., for Illinois; J. W. Robertson, Chicago, Ill., for Illinois, Michigan and Wisconsin; John Hoover, Dayton, O., for Ohio and Indiana; F. S. Holmes, Omaha, Neb., for Iowa and Nebraska; S. E. Sprague, Minneapolis, Minn., for North and South Dakota and Minnesota; J. W. Hoffman, Kansas City, Mo., for Missouri, Kansas, Indian and Oklahoma Territories; A. C. Heitzell, Denver Col., for Colorado, Wyoming and New Mexico. Pacific department: Manager, Wm. Macdonald; assistant manager, D. E. Miles. Special agents: W. B. Hopkins, S. B. Stoy, J. K. Urmston, H. McD. Spencer, S. H. Smith and Burns Macdonald. Territory: California, Oregon, Washington, Montana, Idaho, the Territories of Arizona, Alaska and Utah, and the Hawaiian Islands. The company does business in Maine, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, District of Columbia, North Carolina, South Carolina, Louisiana, Alabama, Georgia, Virginia, West Virginia, Kentucky, Tennessee, Texas, Indiana, Illinois, North Dakota, South Dakota, Missouri, Iowa, Colorado, Kansas, Ohio, Nebraska, Michigan, Wisconsin, Minnesota, New Mexico, Oklahoma, Wyoming, California, Oregon, Nevada, Washington, Idaho, Montana, Utah, Arizona, Alaska.

LONDON ASSURANCE (Marine), London, Eng.—C. L. Despard, manager, New York city. The company operates in New York, Massachusetts, Pennsylvania, Maryland, Illinois, Louisiana, Texas, Georgia, Missouri, South Carolina, Tennessee, Virginia and North Carolina.

MANCHESTER FIRE ASSURANCE COMPANY, Manchester, Eng.—W. W. Dudley, manager; Chas. B. French, assistant manager; John Shepherd, general agent. Special agents: M. P. Vore, Illinois; W. F. Brown, Illinois; E. W. Wile, Indiana; A. S. Witherbee, Michigan and Wisconsin; W. H. Cobban, Minnesota and Dakotas; E. C. Meinel, Iowa

and Nebraska; W. A. Cormany, Kansas and Missouri; D. F. Arnold, Arkansas and Texas; Geo. Hallen, New England States; F. G. Gillispie, State agent, New York and New Jersey; W. S. Muir, special agent, Pennsylvania; J. J. Siebels, special agent, Carolinas; W. A. Reed, special agent, Ohio; Balfour, Guthrie & Co., managers, Pacific coast department. The company does business in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, North Carolina, South Carolina, Alabama, Tennessee, Kentucky, Ohio, Michigan, Indiana, Illinois, Wisconsin, Louisiana, Texas, Arkansas, Missouri, Iowa, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, Indian Territory, Oklahoma, West Virginia, District of Columbia, Wyoming, Colorado, California, Oregon, Nevada, Washington, New Mexico, Idaho, Montana, Utah, Arizona, Alaska.

NORTH BRITISH AND MERCANTILE, London.—Head office in United States, New York; — manager; Wm. A. Francis, assistant manager; H. M. Jackson, secretary. Branch offices: Resident secretaries—Albany, N. Y., Fred B. Hubbard; Baltimore, Md., M. O. Selden; Boston, Mass., Francis H. Stevens; Buffalo, N. Y., C. M. Clarke; Chicago, Ill., H. H. Glidden; Cincinnati, O., A. M. L. Wasson; Dallas, Tex., T. A. Manning; Detroit, Mich., J. F. McSweeney; Indianapolis, Ind., E. A. Munson; Kansas City, Mo., C. W. Fort; Milwaukee, Wis., J. C. Griffiths; Minneapolis, Minn., T. R. Daniel; Omaha, Neb., H. N. Wood; Philadelphia, Pa., Thomas C. Foster; Pittsburgh, Pa., Fred W. Kiefer; Portland, Me., Augustus Champlin; St. Louis, Mo., Sol. E. Waggoner; San Francisco, Cal., W. H. Lowden; special agent, John A. DeGroot, Brooklyn, N. Y. Pacific department, San Francisco, Cal., Tom C. Grant, general agent. The company operates in all States except Arkansas, Delaware, Florida and Mississippi.

NORTHERN ASSURANCE COMPANY, London, Eng.—New York department, Geo. W. Babb, Jr., manager. Special agents: Chas. Durfee, New York State; A. G. Martin, New Jersey and Pennsylvania; J. F. Evans, Delaware, Maryland, Virginia and North Carolina; J. Monroe Ogden, South Carolina, Georgia, Alabama and Louisiana; Gilbert Hay, Texas. The company does business in New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, Virginia, North Carolina, South Carolina, Georgia, Alabama, Louisiana and Texas.

NORWICH UNION FIRE INSURANCE SOCIETY, Norwich, Eng.—Beers, Kenison & Co., Galveston, Tex., for Texas; Cobb, Wilson & Co., Ernest-Cramer building, Denver, Col., for Colorado, Montana, Wyoming and New Mexico; J. L. Liecty, 50 Kilby street, Boston, Mass., for Maine, New Hampshire, Vermont, Massachusetts, Rhode Island and Connecticut; John W. Wood, Jr., Geneva, N. Y., for New York; J. M. Swager, Warren, O., for Ohio and West Virginia; Ben P. Gray, Louisville, Ky., for Kentucky and Tennessee; C. E. Dox, Atlanta, Ga., for South Carolina, Georgia, Mississippi, Louisiana and Alabama; H. N. Kelsey, 177 La Salle street, Chicago, Ill., for Illinois and Indiana; W. C. Leach, Room 206, New York Life Building, Minneapolis, Minn., for Iowa, Minnesota, North and South Dakota; J. S. Fletcher, 223 Sixteenth street, Detroit, Mich., for Michigan and Wisconsin; C. C. Martin, 2306 Lydia avenue, Kansas City, Mo., for Missouri, Kansas and Nebraska; T. C. Temple, 2224 Van Pelt street, Philadelphia, Pa., for New Jersey, Pennsylvania and Delaware; M. Lewin Hewes, 8 Post Office avenue, Baltimore, Md., for Maryland, District of Columbia, North Carolina and Virginia; Rolla V. Watt, San Francisco, Cal., California, Washington, Oregon, Idaho, Nevada, Utah and Arizona. The company does business in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New

York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, Virginia, North and South Carolina, Georgia, Mississippi, Louisiana, Alabama, Ohio, West Virginia, Kentucky, Tennessee, Illinois, Indiana, Iowa, Minnesota, North and South Dakota, Michigan, Wisconsin, Missouri, Kansas, Nebraska, Colorado, New Mexico, Wyoming, Montana, Texas, California, Washington, Oregon, Idaho, Nevada, Utah and Arizona.

PALATINE, Manchester.—Wm. Wood, manager; Wm. M. Ballard, branch secretary, New York, for Eastern and Middle States; Finley & Janvier, New Orleans, for Southern States; Geo. M. Fisher, Chicago, for Western States; Chas. A. Laton, San Francisco, for the Pacific coast; T. H. Hudson, Montreal, for Canada (the "United Fire" in Canada). The company operates throughout the United States.

PHENIX ASSURANCE COMPANY, London, Eng.—A. D. Irving, manager; E. B. Clark, assistant manager; L. P. Bayard, second assistant manager, New York. General agents: Washington Irving, New York city; M. F. Driscoll, Western department, Chicago, Ill. Special agents: John Marr, State of New York; T. K. White, State of Pennsylvania and District of Columbia; L. R. Warren, Virginia, South Carolina; C. M. Slocum, New England States, except Connecticut; W. L. Reynolds, Florida, Louisiana, Mississippi and Alabama; R. C. Gooch, M. L. Sears, W. E. Vandever, W. I. Tallas, Western States; T. L. Monagan, Texas; Nelson E. Rogers, New Jersey and Connecticut. The company does business in every State and Territory of the Union except States of Georgia, North Carolina, Arkansas, Maryland, New Mexico, and Indian and Oklahoma Territories.

PRUSSIAN NATIONAL INSURANCE COMPANY, Stettin, Germany.—Theo. W. Letton, general manager, United States branch, Chicago; John F. Rice, assistant manager, United States branch, Chicago; John Virchow, special agent, United States branch, Chicago; John A. Prinsen, special agent, United States branch, Chicago; W. F. Crook, special agent, United States branch, Chicago; Franz Jacoby, manager Pacific department, San Francisco. The company does business in New York, New Jersey, Pennsylvania, Maryland, Massachusetts, Michigan, Indiana, Kentucky, West Virginia, Illinois, Wisconsin, Minnesota, Iowa, Missouri, Texas, Kansas, Nebraska, New Mexico, Louisiana, Colorado, Wyoming, Montana, Utah, Nevada, Idaho, California, Arizona, Washington.

RELIANCE MARINE INSURANCE COMPANY, LIMITED, Liverpool, Eng.—Attorney and manager for United States, Henry Despard, 16 and 18 Exchange place, N. Y.; C. A. Macdonald & Co., Chicago, for Lake district; Dean & Switzer, Pittsburgh, for Western rivers; E. A. Poole, Boston, W. T. Shackelford, Baltimore; H. W. Brown & Co., Philadelphia; W. H. Markham & Sons, St. Louis; I. Moller & Co., Galveston; M. J. Sanders, New Orleans; John R. Treat, Kansas City; Henry Lund & Co., San Francisco. The company does business in New York, West Virginia, Massachusetts, Maryland, Missouri, Kansas, Michigan, Minnesota, California, Ohio, Pennsylvania, Louisiana, Texas, Wisconsin, Illinois.

ROYAL INSURANCE COMPANY, Liverpool, Eng.—New York office, 50 Wall street, New York; E. F. Beddall, manager; Geo. M. Coit, assistant manager, for State of New York; Geo. Wood, Philadelphia, manager for Pennsylvania, New Jersey and Delaware; Scull & Field, Boston, for Massachusetts, Connecticut, New Hampshire, Rhode Island, Vermont and Maine; J. H. Law & Bros., Cincinnati, for Ohio, Indiana and West Virginia; R. Emory Warfield, Baltimore, for Maryland, Virginia, North Carolina and District of Columbia; Rolla V. Watt, San Francisco, for California, Oregon, Washington, Utah,

Idaho and Arizona; Barbee & Castleman, Louisville, for Kentucky, Tennessee, Georgia, Florida, South Carolina, Alabama, Mississippi, Texas, Arkansas and Louisiana; E. L. Allen, Chicago, for Michigan, Minnesota, Wisconsin, Iowa, Kansas, Missouri, Colorado and Nebraska.

ROYAL EXCHANGE ASSURANCE, London, Eng.—Robert Dickson, manager, San Francisco. Special agents: Edward Hall, Portland, Ore., for Oregon and Washington; John Marshall, Jr., San Francisco, for Colorado, Utah and Idaho; J. E. Hendry, San Francisco, for Northern California and Nevada; R. M. Thomson, Los Angeles, for Southern California and Arizona; B. J. Smith, San Francisco, for all of above. The company does business in California, Oregon, Washington, Nevada, Utah, Idaho, Colorado, Massachusetts (Boston only).

SCOTTISH UNION AND NATIONAL INSURANCE COMPANY, Edinburgh, Scotland.—M. Bennett, manager; J. H. Brewster, assistant manager, Hartford, Conn.; John A. Kelly, Hartford, Conn., for Ohio, West Virginia, Indiana, Kentucky and Tennessee; Harry Y. Chatterley, Hartford, Conn., for Southern States; Wm. F. Rice, Hartford, Conn., for New England and Middle States; Edward F. Rogers, Hartford, Conn., for Canada; C. F. Mitchell, Chicago, Ill., for Northwestern States; Edgar E. Snider, Davenport, Ia., for Nebraska, Illinois and Iowa; W. J. Callingham, San Francisco, general agent for Pacific department; J. H. Morrow, special agent, San Francisco; L. A. Wright, special agent, San Francisco; Geo. Mel, special agent, San Francisco. The company does business in all of the United States and Dominion of Canada.

SUN INSURANCE OFFICE, London, Eng.—J. J. Guile, manager, New York; Wm. J. Landers, San Francisco, general agent for Pacific coast; E. P. Piper, Denver, for Colorado, New Mexico and Wyoming; Beers, Kenison & Co., Galveston, for Texas. The company operates in all States except Delaware, Florida, Mississippi, Arkansas, North Dakota and South Dakota.

TRANSATLANTIC FIRE INSURANCE COMPANY, Hamburg, Germany.—E. Harbers, manager, New York. The company operates in Colorado, Connecticut, Illinois, Kentucky, Minnesota, Michigan, Missouri, Nebraska, New Jersey, New York, Pennsylvania, Tennessee and Wisconsin.

UNION ASSURANCE SOCIETY, London, England.—Hall & Henshaw, New York, managers.

Goodwin, Hall & Henshaw, Chicago, Western department. S. J. Minott, special agent. The company operates in New York, Maine, Massachusetts, Rhode Island, Connecticut, New Jersey, Pennsylvania, Maryland, Ohio, Kentucky, Illinois, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Nebraska, Colorado, Utah, Washington and California.

UNION MARINE INSURANCE COMPANY, Liverpool, England.—Jones & Whitlock, managers, New York. The company operates in Massachusetts, Illinois, Maryland, Michigan, New York, Wisconsin, Louisiana, Ohio, Minnesota and California.

WESTERN ASSURANCE COMPANY, Toronto, Can.—A. A. Crandall, superintendent of agencies at head office. Southern department: Georgia, Florida, South Carolina, Alabama, Mississippi; L. M. Tucker, manager, Atlanta, Ga. Southwestern department: Louisiana, Texas, Arkansas, Oklahoma; George J. Dexter, manager, Dallas, Tex. Northwestern department: Wisconsin, Minnesota, North Dakota, South Dakota, Iowa and Northern Illinois; Geo. W. Hayes, manager, Milwaukee, Wis. Mountain department: Colorado, New Mexico, Utah, Montana, Nebraska, Wyoming and Kansas; H. T. Lamey, manager, Denver, Col. Pacific department: Washington, Idaho, Oregon, California, Arizona and Nevada; A. W. Gurrey, manager; C. H. Stuart, assistant manager, San Francisco, Cal. Michigan, James A. Jones, general agent, Detroit, Mich. New York (except New York city and Buffalo), E. J. Knowles, general agent, Albany. New England States: Fred B. Carpenter, general agent, Boston, Mass. Special agents: J. A. Sullivan, with Southern department; W. M. Freeman, with Southwestern department; J. McC. Anderson, Los Angeles, Cal., with Pacific department; John H. Griffith, Des Moines, Ia.; W. H. Crandall, St. Paul, Minn.; John H. Nelson, Milwaukee, Wis.; W. L. W. Miller, Denver, Col.; H. A. Fraser, Portland, Ore.; Thomas H. Dooley, Boston, Mass.; Joseph M. Biggert, for Pennsylvania, New Jersey and Delaware, 24 Pine street, New York, N. Y.; Louis Weiderhold, Jr., Pittsburgh, Pa.; Grayson Burrows, Richmond, Va., for Maryland, Virginia, West Virginia and District of Columbia; W. B. Smith, for North Carolina, Raleigh, N. C.; H. B. Hart, Kentucky and Tennessee, Cincinnati, O.; B. A. Richardson, for Indiana and Southern Illinois, Indianapolis, Ind.; W. R. Townley, for Missouri, St. Louis, Mo.; Harry Kitson, Detroit, for Northern Ohio and Michigan. The company operates in all States except Vermont and Tennessee.

FIRE DANGERS OF LARGE AREA BUILDING.

Fire underwriters have been discussing for some time the fire dangers of large area buildings, and the universal schedule lately adopted by underwriters encourages the separation of such areas into smaller spaces. But it can be safely assumed that even if legislation is resorted to, as has been suggested, to prevent the multiplication of buildings with large open interiors, owners of such stores will insist upon the necessity of large areas, and many such buildings will never be separated by party walls, as suggested, to please underwriters and promoters of safe buildings. Owners of large areas will insist that such division is impracticable; but here the importance of the protection offered by automatic sprinklers is strongly commendable, for the service of automatic sprinklers applies equally to large and small areas. In fact the automatic sprinklers have rendered their best services in large mills and mercantile properties. Making stores smaller does not introduce any conditions positively antagonistic to fire, and, on the other hand, sprinkler experts maintain that if a building is properly equipped with sprinklers, protection against the spread of fire is as sure in large structures as in small. This is an important point for underwriters to bear in mind.

STATE TAXES AND FEES.

The laws of some of the States are confused regarding taxes, fees, etc., as in most instances they vary as between life insurance companies and the fire, marine and miscellaneous. Retailatory laws also figure prominently, so that it is extremely difficult to ascertain precisely what fees are charged. The following compilation has been corrected by the insurance officials of the various States, and is believed to be substantially correct :

STATE.	Tax on Premiums.	Filing Charter.	Filing Statement.	Issuing Certificate of Authority.	License to Company.	Certificate to Agents.	Certificates Renewable.
	%	\$	\$	\$	\$	\$	
Alabama.....	1	....	..	..	c 100	....	January.
Arizona.....	1½	5	5	5	....	2.00	March.
Arkansas.....	† 2½	15	10	2	....	2.00	March 1.
California.....	(†)	30	20	..	(j †)	....	Annually.
Colorado.....	2	25	50	5	....	2.00	February.
Connecticut.....	(†)	(†)	10	..	....	2.00	April.
Delaware.....	1½	10	10	25	25	2.00	January.
District of Columbia.....	1	....	..	..	....	15.00	January.
Florida.....	1	....	5	..	200	a 10.00	October.
Georgia.....	1	20	20	..	k 50	3.00	January.
Idaho.....	....	....	1	..	50	2.00	April.
Illinois.....	b (†)	30	10	(†)	(†)	2 00	January.
Indiana.....	3	(†)	5	(†)	(†)	2.00	Jan. and July.
Iowa.....	† 2½	25	20	2	(†)	2.00	January.
Kansas.....	(†)	55	50	50	(†)	2.00	February.
Kentucky.....	2	30	25	1	(†)	3.00	January.
Louisiana.....	(b e)	15	10	5	(b)	2.00	January.
Maine.....	† § 2	....	..	..	20	2.00	July.
Maryland.....	1½	25	25	..	300	g 10.00	January.
Massachusetts.....	½	30	20	(†)	(†)	2.00	April.
Michigan.....	† 3	....	..	..	(†)	(†)	January.
Minnesota.....	2	25	20	1	(†)	1.00	January.
Mississippi.....	(f)	20	20	..	1,000	2.50	Annually.
Missouri.....	† 2	50	30	1	....	2.00	Annually.
Montana.....	(e)	50	25	..	....	2.00	Annually.
Nebraska.....	(e)	50	20	..	....	2.00	Annually.
Nevada.....	....	5	..	100	....	....	January.
New Hampshire.....	1	25	15	..	5	2.00	April.
New Jersey.....	2	20	20	(†)	(†)	2.00	January.
New Mexico.....	(e)	25	5	..	(g)	1.00	January.
New York.....	(e)	30	20	..	....	5.00	January.
North Carolina.....	2	....	..	..	100	50	April.
North Dakota.....	† 2½	25	10	2	(†)	2.00	January.
Ohio.....	2½	25	20	(†)	(†)	2.00	February.
Oklahoma.....	....	30	10	..	25	d 2.00	Annually.
Oregon.....	1	....	5	50	....	5.00	Annually.
Pennsylvania.....	† 2	25	20	(†)	25	† 2.00	April.
Rhode Island.....	2	30	20	(†)	(†)	2.00	January.
South Carolina.....	(e)	....	..	..	100	....	Annually.
South Dakota.....	† 2½	25	10	..	2	2.00	January.
Tennessee.....	2½	50	..	(†)	(†)	1.50	Annually.
Texas.....	1½	25	20	1	(†)	1.00	Annually.
Utah.....	....	....	5	..	....	5.00	Annually.
Vermont.....	2	(†)	20	(†)	5	† 1.00	April.
Virginia.....	1	....	..	..	200	....	January.
Washington.....	....	10	5	..	....	1.00	Annually.
West Virginia.....	2	10	10	(†)	(†)	5.00	....
Wisconsin.....	† 2	25	25	(†)	(†)	2.00	January.
Wyoming.....	(e)	50	25	..	....	1.00	Annually.

* Life agent must file certificate with Judge of Probate; fee \$5. † In lieu of all other taxes. ‡ Governed by reciprocal legislation. § On net premiums. a Agents pay \$10 license in county where they do business. b License tax divided into fourteen classes, according to volume of business, ranging from \$300 to \$1750 per annum; cities may demand same license fees, but only New Orleans does so. c Company must pay license tax ranging from \$25 to \$250, according to amount of capital. d Copy of statement for publication, \$3. e Premiums taxed same as personal property. f Security companies must pay for filing charter, \$30; statement, \$30; certificates to agents, \$3. g Sub agents, life, \$3. h Cities charge arbitrary license tax. i San Francisco imposes special license fees ranging from \$35 to \$100 per quarter.

STATE AND TERRITORIAL LEGISLATURES.

The next sessions of the legislatures of the several States and Territories and limit of session is shown in the following table :

STATES AND TERRITORIES.	LEGISLATURES.		
	Next Session Begins.	Annual or Biennial.	Limit of Session.
Alabama.....	Nov., 1894	Biennial	50 days
Arizona.....	Feb., 1895	Biennial	60 days
Arkansas.....	Jan., 1895	Biennial	60 days
California.....	Jan., 1895	Biennial	60 days
Colorado.....	Jan., 1895	Biennial	90 days
Connecticut.....	Jan., 1895	Biennial	.....
Delaware.....	Jan., 1895	Biennial	.....
Florida.....	Apr., 1895	Biennial	60 days
Georgia.....	Oct., 1895	Biennial	50 days
Idaho.....	Jan., 1895	Biennial	60 days
Illinois.....	Jan., 1895	Biennial	.....
Indiana.....	Jan., 1895	Biennial	60 days
Iowa.....	Jan., 1895	Biennial	.....
Kansas.....	Jan., 1895	Biennial	50 days
Kentucky.....	Dec., 1895	Biennial	60 days
Louisiana.....	May, 1896	Biennial	60 days
Maine.....	Jan., 1895	Biennial	.....
Maryland.....	Jan., 1895	Biennial	90 days
Massachusetts.....	Jan., 1895	Annual	.....
Michigan.....	Jan., 1895	Biennial	.....
Minnesota.....	Jan., 1895	Biennial	90 days
Mississippi.....	Jan., 1896	Biennial	.....
Missouri.....	Jan., 1895	Biennial	70 days
Montana.....	Jan., 1895	Biennial	60 days
Nebraska.....	Jan., 1895	Biennial	100 days
Nevada.....	Jan., 1895	Biennial	40 days
New Hampshire.....	Jan., 1895	Biennial	.....
New Jersey.....	Jan., 1895	Annual	.....
New Mexico.....	Dec., 1896	Biennial	60 days
New York.....	Jan., 1895	Annual	.....
North Carolina.....	Jan., 1895	Biennial	60 days
North Dakota.....	Jan., 1895	Biennial	60 days
Ohio.....	Jan., 1895	Biennial	.....
Oklahoma.....	Jan., 1895	Biennial	60 days
Oregon.....	Jan., 1895	Biennial	40 days
Pennsylvania.....	Jan., 1895	Biennial	.....
Rhode Island.....	Jan., 1895	Annual	.....
South Carolina.....	Nov., 1895	Annual	.....
South Dakota.....	Jan., 1895	Biennial	60 days
Tennessee.....	Jan., 1895	Biennial	75 days
Texas.....	Jan., 1895	Biennial	90 days
Utah.....	Jan., 1896	Biennial	60 days
Vermont.....	Oct., 1896	Biennial	.....
Virginia.....	Dec., 1895	Biennial	90 days
Washington.....	Jan., 1895	Biennial	60 days
West Virginia.....	Jan., 1895	Biennial	45 days
Wisconsin.....	Jan., 1895	Biennial	.....
Wyoming.....	Jan., 1895	Biennial	40 days

In several States where biennial sessions are held, the legislatures hold adjourned sessions, by which means the law is evaded and annual sessions held. The Rhode Island legislature meets annually at Newport on the last Tuesday in May, and an adjourned session is required to be held at Providence each year. It is also permitted in several States to prolong the sessions beyond the term named by law.

STATE OFFICIALS HAVING AUTHORITY IN INSURANCE MATTERS.

[Corrected to May 1, 1894.]

STATE.	NAMES.	ADDRESS.	TITLE.
Alabama.....	John Purifoy.....	Montgomery.....	Auditor of State.
Arizona.....	Wm. Christy.....	Phoenix.....	Ter. Treas. and Ins. Com.
Arkansas.....	C. B. Mills.....	Little Rock.....	Auditor of State.
California.....	M. D. Higgins.....	San Francisco.....	Insurance Commissioner.
Colorado.....	F. M. Goodykoontz.....	Denver.....	Superintendent of Ins.
Connecticut.....	Burton Mansfield.....	Hartford.....	Insurance Commissioner.
Delaware.....	Peter K. Meredith.....	Georgetown.....	Insurance Commissioner.
District of Columbia.....	Matthew Trimble.....	Washington.....	Assessor.
Florida.....	C. B. Collins.....	Tallahassee.....	State Treasurer.
Georgia.....	W. A. Wright.....	Atlanta.....	Insurance Commissioner.
Idaho.....	Wm. G. Hill.....	Boise City.....	State Treasurer.
Illinois.....	B. K. Durfee.....	Springfield.....	Superintendent of Ins.
Indiana.....	J. O. Henderson.....	Indianapolis.....	Auditor of State.
Iowa.....	C. G. McCarthy.....	Des Moines.....	Auditor of State.
Kansas.....	S. H. Snider.....	Topeka.....	Superintendent of Ins.
Kentucky.....	H. F. Duncan.....	Frankfort.....	Insurance Commissioner.
Louisiana.....	W. B. Spencer.....	New Orleans.....	Asst. Secretary of State.
Maine.....	Stephen W. Carr.....	Augusta.....	Insurance Commissioner.
Maryland.....	I. Freeman Rasin.....	Baltimore.....	Insurance Commissioner.
Massachusetts.....	Geo. S. Merrill.....	Boston.....	Commissioner of Ins.
Michigan.....	Theron F. Giddings.....	Lansing.....	Commissioner of Ins.
Minnesota.....	C. H. Smith.....	St. Paul.....	Insurance Commissioner.
Mississippi.....	W. W. Stone.....	Jackson.....	Auditor of Public Accounts.
Missouri.....	Jas. R. Waddill.....	St. Louis.....	Superintendent of Ins.
Montana.....	A. B. Cook.....	Helena.....	State Auditor.
Nebraska.....	Eugene Moore.....	Lincoln.....	Auditor of Public Accounts.
Nevada.....	R. L. Horton.....	Carson City.....	State Comptroller.
New Hampshire.....	John C. Linehan.....	Concord.....	Insurance Commissioner.
New Jersey.....	George S. Duryee.....	Trenton.....	Insurance Commissioner.
New Mexico.....	Dometrio Perez.....	Santa Fe.....	Territorial Auditor.
New York.....	James F. Pierce.....	Albany.....	Superintendent of Ins.
North Carolina.....	Octavius Coke.....	Raleigh.....	Secretary of State.
North Dakota.....	Jas. Cudhie.....	Bismarck.....	Commissioner of Ins.
Ohio.....	Wm. M. Hahn.....	Columbus.....	Superintendent of Ins.
Oklahoma.....	Thomas J. Lowe.....	Guthrie.....	Insurance Commissioner.
Oregon.....	Geo. W. McBride.....	Salem.....	Secretary of State.
Pennsylvania.....	Geo. B. Luper.....	Harrisburg.....	Insurance Commissioner.
Rhode Island.....	A. C. Landers.....	Providence.....	Insurance Commissioner.
South Carolina.....	W. H. Ellerbe.....	Columbia.....	Comp. General of State.
South Dakota.....	J. E. Hipple.....	Pierre.....	Auditor of State.
Tennessee.....	E. B. Craig.....	Nashville.....	Commissioner of Ins.
Texas.....	J. E. Hollingsworth.....	Austin.....	Insurance Commissioner.
Utah.....	C. C. Richards.....	Salt Lake City.....	Secretary of Territory.
Vermont.....	C. W. Brownell.....	Burlington.....	Secretary of State.
Virginia.....	Henry F. Field.....	Rutland.....	Treasurer.
	Morton Marye.....	Richmond.....	Auditor of Public Accounts.
Washington.....	Jas. H. Price.....	Olympia.....	Sec. of State and Ins. Com.
West Virginia.....	I. V. Johnson.....	Charleston.....	State Auditor.
Wisconsin.....	Wilbur M. Root.....	Madison.....	Commissioner of Ins.
Wyoming.....	C. W. Burdick.....	Cheyenne.....	Insurance Commissioner.

CANADA.

Dominion of Canada.....	Wm. Fitzgerald.....	Ottawa.....	Superintendent of Ins.
Province of Ontario.....	Dr. J. H. Hunter.....	Toronto.....	Inspector of Insurance.

UNION SHORT RATE TABLE.

1 Day	2% of annual prem.
2 Days	4 " "
3 "	5 " "
4 "	6 " "
5 "	7 " "
6 "	8 " "
7 "	9 " "
8 "	9 " "
9 "	10 " "
10 "	10 " "
11 "	11 " "
12 "	12 " "
13 "	13 " "
14 "	13 " "
15 "	14 " "
16 "	14 " "
17 "	15 " "
18 "	16 " "
19 "	16 " "
20 "	17 " "
25 "	19 " "
30 "	20 " "
35 "	23 " "
40 "	26 " "
45 "	27 " "
50 "	28 " "
55 "	29 " "
60 "	30 " "
65 "	33 " "
70 "	36 " "
75 "	37 " "
80 "	38 " "
85 "	39 " "
90 " or 3 months.....	40 " "
105 " or 4 months.....	45 " "
120 " or 4 months.....	50 " "
135 " or 5 months.....	55 " "
150 " or 5 months.....	60 " "
165 " or 6 months.....	65 " "
180 " or 6 months.....	70 " "
195 " or 7 months.....	73 " "
210 " or 7 months.....	75 " "
225 " or 8 months.....	78 " "
240 " or 8 months.....	80 " "
255 " or 9 months.....	83 " "
270 " or 9 months.....	85 " "
285 " or 10 months.....	88 " "
300 " or 10 months.....	90 " "
315 " or 11 months.....	93 " "
330 " or 11 months.....	95 " "
350 " or 12 months.....	100 " "

SHORT RATE TABLE FOR TERM RISKS.

THREE YEARS.

For 3 months or less.....	20% of term prem.
Over 3 and not exceeding 6 mos.	30 " "
" 6 " " " 9 " "	40 " "
" 9 " " " 12 " "	50 " "
" 12 " " " 15 " "	60 " "
" 15 " " " 18 " "	70 " "
" 18 " " " 21 " "	75 " "
" 21 " " " 24 " "	80 " "
" 24 " " " 27 " "	85 " "
" 27 " " " 30 " "	90 " "
" 30 " " " 33 " "	95 " "
" 33 months.....	100 " "

FOUR YEARS.

For 4 months or less.....	20% of term prem.
Over 4 and not exceeding 8 mos.	30 " "
" 8 " " " 12 " "	40 " "
" 12 " " " 16 " "	50 " "
" 16 " " " 20 " "	60 " "
" 20 " " " 24 " "	70 " "
" 24 " " " 28 " "	75 " "
" 28 " " " 32 " "	80 " "
" 32 " " " 36 " "	85 " "
" 36 " " " 40 " "	90 " "
" 40 " " " 44 " "	95 " "
" 44 months.....	100 " "

FIVE YEARS.

For 5 months or less.....	20% of term prem.
Over 5 and not exceeding 10 mos.	30 " "
" 10 " " " 15 " "	40 " "
" 15 " " " 20 " "	50 " "
" 20 " " " 25 " "	60 " "
" 25 " " " 30 " "	70 " "
" 30 " " " 35 " "	75 " "
" 35 " " " 40 " "	80 " "
" 40 " " " 45 " "	85 " "
" 45 " " " 50 " "	90 " "
" 50 " " " 55 " "	95 " "
" 55 months.....	100 " "

EXPLANATION.—When companies cancel a policy they return *pro rata* premium. When the policyholders cancel, the above table is used so that the companies shall not have to return but the *pro rata* premium less the expense of getting the business.

AUTOMATIC SPRINKLERS.

The following is a list of the principal manufacturers of automatic sprinklers, together with their addresses and the names of the sprinkler heads which they make :

GENERAL FIRE EXTINGUISHER COMPANY, New York.—Clapp, Grinnell, Harkness, Hill, Kane, Neracher.

CHEMICAL AUTOMATIC SPRINKLER COMPANY, Chicago, Ill.—Chemical.

INSURANCE AUTOMATIC FIRE EXTINGUISHER COMPANY, New York.—Esty, Gray,

AMERICAN FIRE EXTINGUISHER COMPANY, Chicago, Ill.—Hibbard.

INDEPENDENT SPRINKLER COMPANY, Chicago, Ill.—Independent, Kersteter.

NEW YORK AND NEW HAVEN AUTOMATIC SPRINKLER COMPANY, New York.—Miller, New York and New Haven.

MANUFACTURERS AUTOMATIC SPRINKLER COMPANY, Syracuse, N. Y.—Mackey, Non-Corrosive.

KANE AUTOMATIC FIRE EXTINGUISHER COMPANY, Philadelphia, Pa.—Perfection.

WALWORTH MANUFACTURING COMPANY, Boston, Mass.—Walworth.

UNITED STATES AUTOMATIC SPRINKLER COMPANY, Chicago, Ill.—Wood.

FIRE INSURANCE BY STATES.

TRANSACTIONS OF THE FIRE AND MARINE INSURANCE COMPANIES.

The following tables show the transactions of the various fire insurance companies in the different States and Territories in 1893. The amounts of risks written and reserved, premium receipts and losses incurred, with the ratio of losses to premiums, are the material points regarding fire insurance that all persons interested in the business are most anxious to compare. The tables present these features in the most condensed form possible. Following the tables of individual States is presented a recapitulation of the entire business of the United States and Canada in 1893, in comparison with transactions of the years 1890 and 1885, giving the totals and the average ratio for the past nine years. The returns were, in a majority of instances, furnished us directly from the offices of the State officers having charge of insurance matters, and are believed to be as nearly correct as it is possible to make them :

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Reserved.	Ratio of Losses to Premiums.
ALABAMA.				
Ætna, Hartford.....	\$31,998	\$12,398	\$2,889,592	39.6
American, New York.....	14,759	5,837	736,031	39.5
American, Philadelphia.....	20,553	11,235	1,473,138	54.6
Atlanta Home, Atlanta.....	3,494	2,236	178,755	65.3
British America, Toronto.....	3,593	2,255	246,749	62.7
Brit. & Foreign Marine, Liverp'l.....	779	.....	38,243	.....
Caledonian, Edinburgh.....	8,200	2,187	487,698	26.6
Capital City F. & M., Montgomery.....	36,512	14,500	.....	39.7
Columbian, Louisville.....	12,702	2,000	.....	15.7
Commercial, Montgomery.....	39,614	14,415	.....	36.3
Commercial Union, London.....	21,886	6,226	1,208,101	28.4
Connecticut, Hartford.....	9,905	4,531	573,800	48.7
Continental, New York.....	22,903	7,190	1,330,457	31.3
Delaware, Philadelphia.....	8,591	3,572	421,762	38.1
Factors & Traders Mutual, Mobile.....	26,414	242	3,368,772	9
Fire Association, Philadelphia.....	12,473	5,914	612,670	47.4
Georgia Home, Columbus, Ga.....	30,824	12,600	1,974,818	41.1
German-American, New York.....	21,721	2,888	1,595,187	13.3
Germania, New York.....	1,457	21	94,325	1.4
Glens Falls, Glens Falls.....	4,093	2,544	255,350	62.1
Greenwich, New York.....	11,850	3,261	943,468	27.5
Guardian Fire & Life, London.....	4,588	5,011	244,671	109.2
ALASKA—Continued.				
Norwich Union, Norwich.....	\$75	.....	.....	.....
Niagara, New York.....	1,083	.....	\$2,500	.....
Phoenix, Hartford.....	1,288	.....	21,500	.....
Royal, Liverpool.....	75	.....	72,500	.....
Scottish Union and Nat'l, Edinburgh.....	1,694	.....	2,500	.....
Totals.....	\$9,253	.....	31,500	.....
ARIZONA.				
Ætna, Hartford.....	\$4,622	\$3,750	\$164,501	81.1
American, New York.....	257	.....	9,578	.....
Atlas, London.....	1,444	192	49,931	13.3
British America, Toronto.....	279	.....	12,275	.....
Caledonian, Edinburgh.....	1,056	764	37,399	72.3
Fire Association, Philadelphia.....	2,365	35	97,695	1.5
Greenwich, New York.....	193	.....	8,500	.....
Guardian, London.....	1,015	.....	.....	.....
Hartford, Hartford.....	3,726	635	154,043	17.0
Home, New York.....	8,399	2,397	322,640	28.5
Lancashire, Manchester.....	19	.....	1,250	.....
National, Hartford.....	6,933	7,032	238,256	101.4
Niagara, New York.....	4,278	961	138,766	22.4

Hamburg-Bremen, Hamburg.....	15,473	10,444	748,844	67.5	North British and Mercantile, Lon	647	512	29,450	79.1
Hanover, New York.....	13,046	5,974	767,889	45.8	Norwich Union, Norwich.....	507	34	22,175	6.7
Hartford, Hartford.....	49,237	10,533	4,073,125	33.6	Phoenix, Hartford.....	8,399	2,397	324,640	28.5
Home, New York.....	48,840	20,548	3,254,738	49.6	Phoenix, London.....	1,917	.....	76,500	.....
Imperial, London.....	11,103	2,156	635,180	19.3	Providentia-Washington, Prov.....	3,068	58	.....	2.0
Ins. Co. of North America, Phila.	40,375	11,360	227,180	28.1	Royal, Liverpool.....	597	34	22,175	6.7
Lancashire, Manchester.....	10,490	9,382	797,408	36.1	Scottish Union and Nat'l, Edin gh	3,011	917	103,249	30.4
Liv. & Lon. & Globe, Liverpool.	90,633	32,735	.....	36.1	Western, Toronto.....	419	65	16,359	15.5
London & Lancashire, Liverpool.	19,014	2,556	1,024,570	13.4	Totals.....	\$53,561	\$19,783	\$1,827,324	36.9
Macon, Macon.....	2,284	3,590	125,324	15.8	ARKANSAS.†				
Manchester, Manchester.....	15,797	759,275	759,275	39.2	Ætna, Hartford.....	\$29,664	\$17,097	\$1,461,642	57.6
Mechs. & Traders, New Orleans.	36,216	16,017	4,806,082	44.2	American Central, St. Louis.....	12,933	5,988	582,448	49.5
Milwaukee Mechanics, Milwaukee	6,587	2,697	459,040	40.9	American, New York.....	10,931	5,418	476,056	49.5
National, Hartford.....	15,937	6,330	943,180	39.7	Arkansas, Little Rock.....	28,399	9,686	1,231,816	34.1
Niagara, New York.....	9,664	6,715	554,940	23.9	British American, Toronto.....	4,192	234	206,125	5.6
Northern Assurance, London.....	9,799	2,333	874,110	63.4	Connecticut, Hartford.....	7,721	5,390	446,402	65.0
North Brit. & Mercantile, London	15,738	7,692	1,069,034	44.8	Continental, New York.....	8,814	2,114	472,200	24.0
Norwich Union, Norwich.....	21,108	9,471	1,436,624	88.8	Caledonian, Edinburgh.....	3,908	846	180,085	21.6
Orient, Hartford.....	19,585	17,394	1,180,934	18.1	Citizens, St. Louis.....	3,993	883	278,615	14.7
Palatine, Manchester.....	21,687	3,927	1,090,186	55.2	Crecent, New Orleans.....	39,099	14,174	1,366,066	44.1
Pennsylvania, Philadelphia.....	12,537	6,944	652,301	58.2	Columbian, Louisville.....	8,890	3,138	837,159	35.3
Phoenix, Brooklyn.....	29,940	17,439	1,750,108	52.2	Fire Association, Philadelphia.....	27,920	20,837	1,115,657	74.6
Phoenix, London.....	43,230	10,028	2,075,533	63.6	Glens Falls, Glens Falls.....	8,138	3,776	.....	46.4
Planters and Merchants, Mobile.	29,215	18,575	1,635,785	20.2	German-American, New York.....	17,972	7,702	1,258,690	43.3
Queen of America, New York.....	18,886	3,815	1,206,692	58.3	Germania, New Orleans.....	20,593	16,358	984,564	79.8
Royal, Liverpool.....	25,192	14,692	1,421,977	13.2	Hartford, Hartford.....	37,551	25,207	1,920,595	67.1
Scot. Union & Nat'l, Edinburgh.	46,422	6,163	2,035,579	19.8	Home, New York.....	20,402	19,677	1,790,321	96.4
Scot. Union & Nat'l, Edinburgh.	10,530	2,093	1,015,750	38.5	Ins. Co. of N. A., Philadelphia.....	20,777	20,918	1,437,425	100.6
Springfield F. & M., Springfield.	13,945	5,309	761,451	77.8	Lancashire, Manchester.....	17,982	6,608	793,999	37.2
Southern, New Orleans.....	13,958	10,852	668,259	9.4	Liv. & Lon. & Globe, Liverpool.	12,744	8,469	602,211	56.4
Stonewall, Mobile.....	29,567	7,787	3,322,306	59.4	Manchester, Manchester.....	12,848	7,376	491,411	57.4
Sun, London.....	12,447	2,395	1,095,200	37.0	Mechs. & Traders, New Orleans.	12,925	10,721	1,104,464	50.6
Sun Mutual, New Orleans.....	32,132	11,887	1,568,973	46.4	National, Hartford.....	5,705	1,655	292,337	29.0
Thames & Mersey, Liverpool.....	696	.....	225,009	76.3	New Orleans Ass'n, New Orleans	19,317	11,765	983,993	60.9
Westchester, New York.....	3,968	1,844	880,948	106.0	N. Y. Underwriters Agency.....	19,867	13,543	283,160	45.0
Western Assurance, Toronto.....	20,090	15,235	250,640	38.9	Niagara, New York.....	6,240	2,812	319,400	11.1
Williamsburgh City, Brooklyn.....	4,367	4,614	.....	.....	Northwestern National, Milwaukee	6,180	685	319,400	11.1
Totals.....	\$1,166,433	\$454,577	\$64,424,257	.....	Orient, Hartford.....	10,778	14,578	1,009,697	73.7
ALASKA.					Palatine, Manchester.....	10,467	6,288	449,384	60.0
Ætna, Hartford.....	\$579	.....	\$14,500	.....	Pennsylvania, Philadelphia.....	9,867	6,793	443,499	69.2
Atlas, London.....	1,351	.....	92,500	.....	Phenix, Brooklyn.....	21,787	9,587	1,036,300	44.0
Greenwich, New York.....	341	.....	10,366	.....	Phoenix, Hartford.....	20,942	.....	1,254,378	45.6
Guardian, London.....	1,181	.....	.....	.....	Royal, Liverpool.....	7,661	3,493	394,598	77.8
Harford, Hartford.....	606	.....	19,553	.....	Scottish Union, Edinburgh.....	20,427	2,986	821,274	14.6
Lancashire, Manchester.....	900	.....	18,750	.....	Springfield, Springfield.....	18,092	8,473	757,365	40.8
National, Hartford.....	50	.....	2,000	.....				

* Losses paid † Losses are losses paid.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
ARKANSAS—Continued.				
Southern, New Orleans.....	\$43,740	\$36,715	\$1,210,867	83.9
Sun Mutual, New Orleans.....	12,559	23,091	434,527	183.8
Teutonia, New Orleans.....	12,520	6,014	.....	48.0
Western Assurance, Toronto.....	9,810	6,460	136,194	65.8
Totals.....	\$64,161	\$388,608	\$28,804,784	60.5
CALIFORNIA.				
Aech. & Munich, Aix La Chapelle.	\$46,035	\$3,671	\$3,766,451	7.9
Ætna, Hartford.....	183,093	66,583	10,533,486	36.2
Agricultural, Watertown.....	35,477	15,716	2,298,511	44.3
Alliance, London.....	122,659	58,902	10,419,261	48.0
American, Boston.....	21,509	10,560	1,173,283	49.1
American, Newark.....	43,087	16,401	2,356,338	38.1
American, New York.....	37,314	28,466	1,788,469	76.3
American, Philadelphia.....	58,879	27,211	2,931,936	46.2
American Central, St. Louis.....	53,078	26,395	2,839,263	49.5
Atlas, London.....	49,326	21,046	2,956,068	42.7
Baloise, Basle.....	13,643	1,598	912,943	11.7
Boylston, Boston.....	9,703	10,662	632,560	108.8
British America, Toronto.....	25,681	8,389	1,469,151	32.7
Broadway, New York.....	10,439	1,334	1,140,272	8.1
Caledonian, Edinburgh.....	92,376	39,216	4,917,562	42.5
Citizens, New York.....	30,509	8,748	1,921,062	28.7
Columbian, Louisville.....	20,228	4,122	693,741	33.7
Commercial Union, London.....	124,828	72,372	11,816,436	35.3
Connecticut, Hartford.....	65,784	34,886	3,681,397	53.0
Continental, New York.....	123,985	37,208	3,925,343	30.0
Delaware, Philadelphia.....	29,994	12,663	1,496,150	42.2
Equitable F. & M., Providence.....	14,266	3,978	723,899	27.7
Farragut, New York.....	6,886	1,391	421,307	20.2
Fire Association, Philadelphia.....	43,562	30,803	2,348,776	70.6
Fireman, Newark.....	3,553	364	219,775	9.9
Fireman Fund, San Francisco.....	328,875	112,180	17,801,834	36.3
Franklin, Philadelphia.....	17,978	8,994	1,758,081	32.2
German-American, New York.....	145,044	55,044	7,536,420	37.7
Germania, New York.....	13,569	1,082	1,037,687	8.0
Gifford F. and M., Philadelphia.....	7,393	26	485,758	0.3
Glens Falls, Glens Falls.....	15,294	7,601	804,954	49.0

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
CALIFORNIA—Continued.				
Royal Exchange, London.....	\$106,327	\$23,096	\$5,790,818	21.7
St. Paul F. and M., St. Paul.....	30,285	9,144	1,164,872	30.2
Scot. Union & Nat'l, Edinburgh.....	108,904	25,137	6,163,709	23.1
Southern, New Orleans.....	17,843	22,868	702,908	126.5
Spring Garden, Philadelphia.....	2,405	3,595	147,873	149.4
Springfield F. & M., Springfield.....	47,086	26,249	2,322,875	54.7
Sun, London.....	110,065	6,357,442	6,357,442	39.3
Sun, San Francisco.....	120,821	43,363	7,005,539	27.6
Svea, Gothenburg.....	19,486	5,310	932,144	27.3
Teutonia, New Orleans.....	13,324	2,747	698,515	20.6
Transatlantic, Chicago.....	31,652	11,624	1,045,782	36.7
Transatlantic, Hamburg.....	97,183	27,695	4,426,314	28.5
Union, London.....	57,330	13,779	3,573,834	24.0
Union, Philadelphia.....	6,507	3,721	342,691	57.2
United Firemen, Philadelphia.....	13,866	2,762	708,241	20.0
United States, New York.....	14,195	2,696	953,270	18.9
Westchester, New York.....	71,218	54,354	3,702,199	76.3
Western, Toronto.....	39,018	18,657	2,128,841	47.7
Williamsburgh City, Brooklyn.....	14,083	8,083	830,328	57.4
Totals.....	\$6,780,453	\$2,667,160	\$388,522,593	39.3
CANADA.				
Ætna, Hartford.....	\$143,836	\$91,523	.....	63.6
Agricultural, Watertown.....	58,763	48,107	.....	81.8
Albion, London.....	119,693	82,427	.....	68.8
Alliance.....	201,947	163,517	.....	80.9
Atlas, London.....	100,300	78,709	.....	78.5
British America, Toronto.....	135,633	138,723	.....	64.3
Caledonian, Edinburgh.....	133,021	115,058	.....	86.4
Commercial Union, London.....	357,251	253,658	.....	71.0
Connecticut, Hartford.....	32,509	23,380	.....	71.9
Eastern, Halifax.....	262,695	188,314	.....	71.7
Guardian, London.....	281,883	173,623	.....	61.6
Hartford, Hartford.....	138,504	92,173	.....	66.5
Imperial, London.....	194,976	164,933	.....	84.5
Ins. Co. of No. America, Philadel.	66,321	39,799	.....	60.0
Lancashire, Manchester.....	263,704	195,452	.....	74.0
Liv. & Lon. & Globe, Liverpool.....	323,871	269,361	.....	83.1

Granite State, Portsmouth.....	10,583	7,292	569,619	68.9	London Assurance, London.....	111,186	70,733	63.6
Greenwich, New York.....	17,337	8,015	836,952	46.2	London & Lancashire, Liverpool.....	194,953	92,831	48.3
Guaranty, London.....	118,667	46,953	6,087,215	34.5	London Mutual, London, Ont.....	113,622	105,769	93.1
Hamburg-Bremen, Hamburg.....	94,922	21,200	6,193,222	22.8	Manchester, Manchester.....	118,866	118,070	99.3
Hamburg-Magdeburg, Hamburg.....	67,586	23,841	4,075,678	35.3	Mercantile, Waterloo.....	137,154	85,431	62.2
Hanover, New York.....	61,018	17,466	3,822,124	28.7	Northern, London.....	173,079	121,622	70.2
Hartford, Hartford.....	202,917	76,048	12,997,051	37.7	North Brit. & Mercantile, Lond.*	392,115	337,165	85.9
Helvetia-Swiss, St. Gall.....	79,618	17,008	4,845,377	21.6	Norwich Union, Norwich.....	118,400	79,500	67.1
Home, New York.....	84,306	25,204	5,214,179	30.0	Phoenix, Brooklyn.....	88,729	68,729	77.1
Home Mutual, San Francisco.....	199,065	79,061	10,821,747	39.7	Phoenix, Hartford.....	236,138	186,356	78.9
Imperial, London.....	62,276	34,720	3,281,187	54.7	Phoenix, London.....	260,233	162,133	62.3
Ins. Co. of N. America, Phila.....	85,922	35,216	4,835,882	40.9	Quebec.....	99,127	69,819	70.4
Ins. Co. of State of Pa., Philadel.....	10,993	7,518	863,860	44.5	Queen of America, New York.....	170,370	170,370	63.5
Lancashire, Manchester.....	86,943	24,951	4,948,134	27.7	Royal, Liverpool.....	594,621	433,568	72.9
Lion, London.....	59,088	32,885	3,933,434	55.6	Scot. Union & Nat'l, Edinburgh.....	134,593	96,194	71.4
Liv. & Lon. & Globe, Liverpool.....	288,281	122,119	19,597,191	42.4	Sun Insurance Office, London.....	130,546	56,978	56.6
London & Globe, Liverpool.....	58,159	18,495	3,595,779	31.6	Union Assurance, London.....	107,800	95,427	69.2
London & Lancashire, Liverpool.....	309,145	121,238	18,420,879	36.9	United Fire, Manchester.....	168,036	117,829	70.1
Magdeburg, Magdeburg.....	25,052	4,745	1,470,059	18.9	Western, Toronto.....	333,605	215,341	64.5
Manchester, Manchester.....	107,969	35,200	6,028,924	32.7	Totals.....	\$6,678,923	\$4,802,692	71.9
Mrs. & Builders, New York.....	26,100	8,063	1,481,810	30.9				
Merchants, New York.....	26,963	11,333	1,361,835	42.0				
Merchants, Providence.....	14,206	3,978	723,899	27.7				
Mutual, New York.....	32,462	1,093	3,189,840	3.4				
National, Dublin.....	32,460	3,400	2,224,224	82.9				
National, Hartford.....	33,436	3,973,015	3,973,015	40.7				
New Zealand, Auckland.....	64,390	6,885,517	6,885,517	51.5				
Niagara, New York.....	11,984	2,821,344	2,821,344	26.3				
N. British & Mercantile, London.....	60,088	9,224,748	9,224,748	42.5				
North German, Hamburg.....	34,993	5,999,166	5,999,166	34.6				
Northern, London.....	18,463	3,595,779	3,595,779	31.6				
Northwestern National, Milwaukee.....	25,946	1,438,574	1,438,574	29.2				
Norwich Union, Norwich.....	68,368	3,948,880	3,948,880	50.8				
Oakland Home, Oakland.....	62,720	6,423,847	6,423,847	55.9				
Orient, Hartford.....	20,158	1,616,148	1,616,148	64.5				
Pacific, New York.....	31,662	474,596	474,596	7.3				
Palatine, Manchester.....	553	9,795,958	9,795,958	30.5				
Palatine, New York.....	52,278	2,224,224	2,224,224	60.7				
Patriotic, Dublin.....	32,697	2,908,934	2,908,934	45.2				
Pennsylvania, Philadelphia.....	51,516	2,713,998	2,713,998	45.2				
Phoenix, Brooklyn.....	229,014	8,767,735	8,767,735	45.3				
Phoenix, Hartford.....	25,204	5,214,179	5,214,179	30.0				
Phoenix, London.....	84,306	5,866,220	5,866,220	37.6				
Prussian National, Stettin.....	99,014	37,210	5,675,682	43.6				
Providence National, Prov.....	103,424	45,167	1,165,101	70.5				
Queen, New York.....	20,191	15,356	1,165,101	43.6				
Reading, Reading.....	93,292	41,344	5,966,366	58.7				
Rochester German, Rochester.....	12,778	1,576	579,540	43.2				
Royal, Liverpool.....	68,368	23,004	638,036	180.0				
		34,659	3,948,880	50.8				

* Approximate.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
COLORADO—Continued.				
Fire Association, Philadelphia....	\$9,384	\$7,209	\$524,015	76.8
Firemans Fund, San Francisco....	43,330	15,982	2,681,332	36.9
Franklin, Philadelphia....	5,747	2,022	407,830	35.2
German-American, New York....	28,810	10,710	1,854,795	37.1
German, Freeport....	13,110	6,645	795,882	50.7
German, Peoria....	6,634	10,376	595,405	156.4
German Mutual, Denver....	5,204	270	131,300	5.2
Girard F. and M., Philadelphia....	7,007	3,003	528,270	42.8
Glens Falls, Glens Falls....	4,666	3,232	378,155	69.8
Greenwich, New York....	2,160	1,628	182,965	75.3
Hanover, New York....	11,347	7,198	624,311	63.4
Hamburg-Bremen, Hamburg....	8,523	10,139	583,442	118.9
Hartford, Hartford....	35,206	20,662	2,017,380	58.8
Home, New York....	49,938	23,285	4,200,791	45.6
Home Mutual, San Francisco....	13,743	6,444	724,214	46.9
Helvetia Swiss....	13,739	.....	762,841	.....
Imperial, London....	41,065	22,911	2,076,337	55.0
Ins. Co. of North America, Phila....	43,791	33,707	2,201,342	76.9
Ins. Co. of the State of Pa., Phila....	9,047	7,147	695,226	79.0
Lancashire, Manchester....	16,830	10,937	1,026,805	59.6
Lion, London....	20,583	16,670	925,211	81.0
Liv. and London and Globe, Liv....	56,485	25,035	3,224,486	44.3
London Assurance Corp., London....	7,916	3,916	445,083	49.4
London and Lancashire, Liv....	22,937	21,968	1,118,099	95.8
Lumbermens, Philadelphia....	2,205	1,718	239,285	77.9
Manchester, Manchester....	27,680	.....	.....	.....
Mfrs. and Builders, New York....	2,040	240	90,050	17.7
Mechanics, Philadelphia....	1,351	942	222,133	29.3
Mercantile F. and M., Boston....	3,596	3,014	366,123	83.8
Mechanics, Newark....	7,901	11,841	534,399	162.4
Michigan F. and M., Detroit....	10,994	6,363	531,583	57.9
Milwaukee Mechanics, Milwaukee....	12,122	7,270	997,856	59.8
National, Hartford....	34,208	25,608	1,668,674	74.8
Newark, Newark....	2,286	2,603	130,059	113.8
New Hampshire, Manchester....	12,242	3,128	840,662	25.5
New Zealand, Auckland....	36,488	22,799	2,231,341	62.3
Niagara, New York....	20,124	13,696	1,127,709	67.7
N. British and Mercantile, Lon....	28,413	18,835	1,679,741	66.3
CONNECTICUT—Continued.				
Boylston, Boston....	\$4,529	\$2,804	\$449,334	63.9
British America, Toronto....	10,768	6,048	1,019,019	56.2
Broadway, New York....	8,310	8,153	723,859	98.1
Buffalo German, Buffalo....	12,968	4,231	1,590,068	32.6
Caledonian, Edinburgh....	23,175	9,091	2,222,176	39.2
Citizens, New York....	18,085	19,813	2,024,365	109.6
Commerce, Albany....	4,448	2,388	501,270	53.2
Commercial Union, London....	35,072	16,577	3,531,526	47.2
Connecticut, Hartford....	49,439	16,693	5,096,800	33.6
Continental, New York....	61,096	30,781	6,244,623	50.4
Delaware, Philadelphia....	11,021	3,385	1,153,200	30.7
Eagle, New York....	4,385	363	486,686	8.3
Equitable, Providence....	7,768	8,133	870,230	104.7
Farragut, New York....	1,252	17	137,322	1.4
Fire Association, Philadelphia....	28,162	12,473	2,351,829	44.3
Firemans Fund, San Francisco....	22,186	9,702	2,119,782	43.7
Firemens, Newark....	16,775	9,516	2,007,651	56.9
First National, Worcester....	9,545	8,054	1,038,048	84.4
Franklin, Philadelphia....	14,180	4,361	1,378,895	30.8
German-American, New York....	44,446	28,216	5,005,382	63.5
Germania, New York....	24,036	11,004	2,627,470	45.8
Girard, Philadelphia....	11,350	8,828	1,314,158	77.8
Glens Falls, Glens Falls....	10,139	1,793	1,146,960	17.7
Granite State, Portsmouth....	12,746	13,255	1,187,183	63.5
Greenwich, New York....	9,125	6,567	1,138,818	72.0
Guardian, London....	22,086	9,040	2,177,753	40.9
Hamburg-Bremen, Hamburg....	18,661	10,866	1,918,547	57.9
Hanover, New York....	30,677	18,781	3,111,655	61.2
Hartford, Hartford....	13,768	74,265	12,553,530	65.3
Home, New York....	59,398	33,286	6,368,724	56.0
Imperial, London....	14,102	2,530	1,396,914	17.9
Ins. Co. of North America, Phila....	67,136	17,348	7,376,525	25.8
Ins. Co. of State of Pa., Phila....	23,019	11,668	1,087,203	50.8
Lancashire, Manchester....	24,644	16,848	2,559,822	68.4
Lion, London....	9,269	7,730	935,624	83.0
Liv. & Lon. & Globe, Liverpool....	79,409	39,739	8,131,086	59.4
London Assurance, London....	15,751	4,026	1,956,772	25.5
London & Lancashire, Liverpool....	27,464	12,852	2,455,541	46.8
Manchester, Manchester....	5,918	1,546	779,367	26.1

Northern, London.....	16,816	6,295	37.4	Mechs. & Traders, New Orleans.....	11,585	6,301	54.4
Northwestern National, Milw'kee.....	10,708	5,955	24.2	Mercantile, Boston.....	4,953	4,682	94.5
Norwich Union, Norwich.....	25,097	19,766	77.5	Mercantile, Newark.....	14,998	12,365	82.5
Orient, Hartford.....	7,807	8,596	119.2	Merchants, Providence.....	7,376	3,895	51.8
Pacific, New York.....	4,323	8,549	197.7	Milwaukee, Detroit.....	5,150	451	8.8
Palatine, Manchester.....	22,387	12,594	55.6	Milwaukee Mechanics, Milwaukee.....	10,866	4,994	46.0
Pennsylvania, Philadelphia.....	22,187	18,257	82.3	National, Hartford.....	58,301	24,045	41.2
Phoenix, Brooklyn.....	40,810	31,426	64.4	Newark, Newark.....	2,751	2,378	87.1
Phoenix, Hartford.....	20,389	15,706	77.0	New Hampshire, Manchester.....	31,028	15,058	50.5
Phoenix, London.....	12,256	8,984	73.3	New York Bowery, New York.....	7,018	2,887	40.3
Providence-Washington, Prov.....	22,135	1,788,910	57.8	Niagara, New York.....	59,416	21,424	36.1
Prussian National, Stettin.....	14,844	7,294	49.1	North American, Boston.....	5,634	3,570	63.4
Queen, New York.....	15,931	1,000,434	99.3	No. British & Mercantile, London.....	27,653	16,591	60.0
Reliance, Philadelphia.....	2,203	438,422	47.1	Northern, London.....	20,731	9,849	47.5
Royal Exchange, London.....	7,915	839,306	58.7	Northwestern Nat'l, Milwaukee.....	4,155	3,103	74.7
Royal, Liverpool.....	13,383	1,946,473	41.9	Norwalk, Norwalk.....	11,711	3,478	29.7
St. Paul F. and M., St. Paul.....	12,727	975,893	38.0	Norwich Union, Norwich.....	22,968	10,169	44.3
Scottish Union and Nat., Edinb'g.....	23,809	1,400,906	58.0	Orient, Hartford.....	44,850	19,384	55.6
Southern, New Orleans.....	7,725	314,702	127.0	Pacific, New York.....	25,719	5,559	21.6
Springfield F. & M., Springfield.....	21,025	1,051,283	49.5	Palatine, Manchester.....	5,489	5,387	99.2
Spring Garden, Philadelphia.....	9,200	819,384	100.5	Pennsylvania, Philadelphia.....	24,422	17,049	72.7
Sun, San Francisco.....	4,514	448,251	87.7	Phoenix, Brooklyn.....	32,521	7,983	24.6
Sun Insurance Office, London.....	33,461	1,840,906	48.1	Phoenix, Hartford.....	83,254	31,205	37.5
Tenonia, Allegheny.....	.....	.....	.....	Phoenix, London.....	23,417	17,011	72.6
Teutonia, New Orleans.....	1,704	167,025	1	Providence Washington, Prov.....	20,444	13,164	64.4
Traders, Chicago.....	27,259	1,387,487	62.8	Queen, New York.....	25,421	14,048	55.3
Transatlantic, Hamburg.....	335	263,300	11.3	Reading, Reading.....	7,544	5,791	76.8
Union, London.....	10,984	804,913	70.1	Reliance, Philadelphia.....	3,516	3,198	90.9
Union, Philadelphia.....	2,097	227,975	65.0	Rochester German, Rochester.....	9,998	5,228	52.3
United Firemen's, Philadelphia.....	1,693	.....	.....	Royal, Liverpool.....	78,705	38,411	48.8
United States, New York.....	2,107	222,297	137.4	Scottish Union & Nat'l, Edinburgh.....	25,639	19,121	74.6
Western, New York.....	6,701	498,365	52.2	Sea, London.....	720	175,554	50.7
Western, Toronto.....	11,895	2,379,948	39.9	Security, New Haven.....	58,616	19,580	29.5
Williamsburgh City, Brooklyn.....	4,028	341,150	51.0	Springfield F. & M., Mass.....	37,404	11,028	29.8
Totals.....	\$1,461,779	\$830,601	56.8	Spring Garden, Philadelphia.....	7,692	5,908	76.8
				St. Paul F. and M., St. Paul.....	6,904	3,635	52.7
				Sun, London.....	23,636	11,454	48.5
				Transatlantic, Hamburg.....	5,705	1,951	34.2
				Union, London.....	4,947	2,185	44.2
				Union, Philadelphia.....	5,748	3,343	58.2
				United Firemen's, Philadelphia.....	6,080	7,415	123.2
				United States, New York.....	7,473	4,128	55.2
				Western, New York.....	22,620	922,736	42.1
				Western, Toronto.....	18,962	15,230	80.3
				Williamsburgh City, Brooklyn.....	22,982	1,453,081	18.9
				Totals.....	\$1,070,991	\$2,700,514	49.9
							\$231,354,580

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FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
CONNECTICUT—Continued.				
<i>Mutual Companies.</i>				
Danbury, Danbury.....	\$825	\$1,054	\$214,755	197.7
Farmers, Danbury.....	86	21,995	27,000	487.8
Farmington Valley, Farmington.....	229	1,117	59,005	7.2
Fitchburg, Massachusetts.....	6,730	482	59,005	506.3
Greenwich, Greenwich.....	395	1,550	8,731,795	49.8
Hartford County, Hartford.....	46,107	22,944	582,288	67.5
Holyoke, Massachusetts.....	6,600	4,455	1,372,727	137.9
Litchfield County, Litchfield.....	4,460	6,151	62,815	59.1
Madison, Madison.....	449	3,700	11,775,130	70.4
Merchants and Farmers, Mass.....	6,414	53,681	185,040	6
Middlesex, Middletown.....	76,394	52	2,832,899	54.1
Mutual, Hartford.....	475	3	693,904	17.9
New London County, Norwich.....	18,117	10,222	3,950	69.4
Patrons, Hartford.....	3,478	1,883	209,975	57.1
Providence, Massachusetts.....	42	458	97,209	37.5
Quincy, Massachusetts.....	2,560	149	1,459,766	62.5
Rockville, Rockville.....	666	4,964	3,210,521	64.8
State, Hartford.....	7,820	19,913	146,055	86.5
Tolland County, Tolland.....	30,727	15	1,641,323	63.4
Washington, Washington.....	411	10,008	\$34,402,892	57.1
Windham County, Brooklyn.....	12,484		480,500	37.5
Totals.....	\$225,329	\$149,838	1,000	6.2
DELAWARE.				
Ætna, Hartford.....	\$9,230	\$5,275	\$1,233,480	57.1
Agricultural, Watertown.....	5,164	1,941	286,762	27.6
American, Baltimore.....	35	48	1,166,193	62.9
American, New York.....	766	4,802	428,665	27.6
American, Philadelphia.....	3,323	632	124,312	12.5
Atlas, London.....	2,635	297	186,508	64.5
British America, Toronto.....	2,375	930	566,488	18.8
Caledonian, Edinburgh.....	1,441	1,070	259,400	37.2
Commercial Union, London.....	5,695	905	436,893	43.4
Connecticut, Hartford.....	2,434	1,599		
Continental, New York.....	3,678			

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
DISTRICT OF COLUMBIA.				
Ætna, Hartford.....	\$5,698	\$4,144	\$1,011,248	73.5
American Central, St. Louis.....	1,164	646	236,700	55.5
American, Baltimore.....	867	1,229	269,750	41.5
American, New York.....	2,950	768	443,660	33.9
American, Philadelphia.....	2,261	5,915	1,914,972	63.2
Arlington, Washington.....	17,792	6,578	4,060,906	37.0
British America, Toronto.....	2,135	784	299,690	36.7
Buffalo German, Buffalo.....	1,890	125	341,625	6.8
Caledonian, Edinburgh.....	2,203	139	310,395	6.1
Citizens, New York.....	847	1,087	122,300	128.3
Columbia, Washington.....	28,079	8,042	1,922,700	28.6
Delaware, Philadelphia.....	1,215	2,254	211,812	185.5
Equitable F. and M., Providence.....	17	.....	3,500	.....
Farragut, New York.....	387	2,495	433,179	72.3
Fire Association, Philadelphia.....	3,450	159	182,358	14.5
Fire Ins. Co. of Philadelphia.....	1,004	515	375,340	17.9
Franklin, Philadelphia.....	2,866	9,430	5,181,792	38.9
Franklin, Washington.....	24,203	.....	238,590	.....
Georgia Home, Columbus.....	1,493	3,948	.....	23.5
German-American, Washington.....	16,660	36	343,574	1.5
Germania, New York.....	2,349	415	790,519	9.5
Girard F. and M., Philadelphia.....	4,346	10	191,575	1.0
Greenwich, New York.....	1,058	.....	399,668	20.6
Guardian, London.....	4,095	682	261,078	46.0
Hanover, New York.....	3,313	1,451	1,084,597	31.8
Hartford, Hartford.....	3,152	3,613	286,768	31.4
Home, New York.....	11,365	924	117,222	40.4
Lancashire, Manchester.....	2,943	395	154,175	16.0
London, London.....	978	156	60,022	.....
London Assurance, London.....	975	.....	.....	8.0
Maryland, Baltimore.....	549	112	219,888	37.0
Mechanics and Traders, N. O.....	1,392	807	339,648	133.9
Mechanics, Newark.....	2,161	3,274	3,281,955	32.6
National, Hartford.....	2,445	5,807	1,778,266	29.7
National Metropolitan, Wash'ton	17,808	3,492	604,518	39.0
Niagara, New York.....	11,252	1,049	1,734,471	74.9
North British and Mercantile, Lon	3,532	7,098	.....	.....
Norwich Union, Norwich.....	9,474	.....	.....	.....

Equitable F. and M., Providence.	849	1,728	149,510	293.5	Pacific, New York.....	567	.....	188,275	.....
Fire Association, Philadelphia.	9,105	6,226	1,038,322	68.3	Pennsylvania, Philadelphia.	3,075	19	.....	.....
Fire Ins. Co. Co. of Phila., Phila.	1,366	173	104,576	19.7	Peoples, Washington.....	13,320	6,810	1,090,333	51.1
Fireman's Fund, San Francisco.	618	.....	83,749	.....	Phoenix, Hartford.....	4,693	4,491	268,368	95.7
German-American, New York.	1,226	6	261,099	5	Phoenix, London.....	2,492	9	.....	.....
German-American, New York.	2,226	3,293	335,950	135.7	Providence-Washington, Prov.	2,924	110	.....	.....
Glens Falls, Glens Falls.	3,748	4,271	446,443	113.9	Prussian National, Stettin.....	424	.....	46,250	.....
Ghirard F. and M., Philadelphia.	1,137	2,677	169,620	235.4	Reading, Reading.....	2,620	4,062	371,405	135.0
Greenwich, New York.	35	.....	3,500	.....	Royal, Liverpool.....	11,497	1,539	1,897,516	13.4
Guardian, London.	675	198	135,625	29.3	St. Paul F. and M., St. Paul.	637	72	77,500	1.7
Hanover, New York.	2,007	3,622	171,078	179.5	Scottish Union and Nat'l, Edin'gh	2,058	.....	245,924	9.5
Home, New York.	7,935	614	851,002	7.7	Security, New Haven.....	2,225	113	236,831	5.1
Imperial, London.....	2,310	1,822	266,315	80.2	Spring Garden, Philadelphia.....	1,432	111	342,675	7.7
Ins. Co. of North America, Phila.	4,090	1,883	536,271	40.1	Tenonia, Philadelphia.....	376	.....	90,350	.....
Lancashire, Manchester.....	4,567	1,484	529,097	32.5	Transatlantic, Hamburg.....	7734	2,407	644,766	88.0
Lion, London.....	2,593	56	260,032	2.2	Union, Philadelphia.....	871	30	169,534	3.4
Liv. and Lon. and Globe, Liv.	7,031	2,515	673,663	35.1	United Firemen's, Philadelphia.....	502	615	60,575	122.5
London Assurance, London.....	1,260	249	152,859	19.7	Virginia F. and M., Richmond.....	2,000	3,356	245,750	160.5
Merchants, Newark.....	4,094	2,019	448,016	50.0	Westchester, New York.....	2,870	409	422,946	14.2
Merchants, Providence.....	1,067	77	158,382	7.2	Western, Pittsburgh.....	532	1	171,950	.....
Niagara, New York.....	2,400	2,124	299,999	88.5	Western, Toronto.....	1,511	3,600	108,507	293.6
Northern, London.....	3,077	533	442,709	17.3	Totals.....	\$269,191	\$105,344	\$37,072,966	39.1
N. British and Mercantile, London	1,075	1,223	143,939	113.4	FLORIDA.				
Norwich Union, Norwich.....	1,356	2,050	160,224	151.2	Atna, Hartford.....	\$33,215	\$14,666	\$1,894,755	44.1
Pennsylvania, Philadelphia.....	5,980	2,670	414,408	45.1	American, New York.....	17,442	4,143	700,635	23.7
Phoenix, Brooklyn.....	5,621	4,093	595,118	72.8	American, Philadelphia.....	20,969	4,206	1,061,327	20.5
Phoenix, New York.....	593	75	164,239	13.3	Caledonian, Edinburgh.....	5,207	3,010	223,861	57.8
Queen, New York.....	2,193	740	291,375	33.7	Columbian, Louisville.....	6,213	7	341,988	1
Royal, Liverpool.....	27,379	9,721	4,076,527	35.5	Continental, New York.....	21,720	7,046	835,748	32.4
Scottish Union and Nat'l, Edin'gh	5,978	987	561,850	16.5	German-American, New York.....	10,486	2,651	867,098	16.0
Southern, New Orleans.....	4,009	1,468	210,169	36.6	Glens Falls, Glens Falls.....	12,979	3,796	719,297	29.2
Spring Garden, Philadelphia.....	1,339	1,134	193,580	85.2	Greenwich, New York.....	12,896	3,470	709,731	29.2
Union, Philadelphia.....	2,335	2,098	219,021	89.1	Hamburg-Bremen, Hamburg.....	14,849	3,899	694,410	26.2
United Firemen's, Philadelphia.....	1,413	250	140,814	17.7	Hartford, Hartford.....	63,082	22,664	4,407,552	35.9
Westchester, New York.....	2,370	112	324,675	4.7	Home, New York.....	18,259	4,098	1,135,244	22.4
Western, Toronto.....	3,133	750	263,364	23.9	Imperial, London.....	15,419	2,079	609,240	13.5
Totals.....	\$167,242	\$81,368	\$20,624,353	48.7	Ins. Co. of N. A., Philadelphia.....	17,000	1,772	922,900	10.4
Mutual Companies.					Niagara, New York.....	19,315	2,823	351,935	33.9
Cantwell Mutual, Odessa.....	\$3,690	\$200	\$882,998	5.4	Orient, Hartford.....	8,238	8,238	816,956	42.6
Delaware State Grange, Camden.	208	119	50,615	57.2	Palatine, Manchester.....	17,216	1,849	981,139	10.7
Farmers Mutual, Wilmington.....	39,001	17,018	9,449,899	43.6	Pennsylvania, Philadelphia.....	9,727	45	432,922	5
Kept County Mutual, Dover.....	27,239	7,383	6,120,306	27.1	Phoenix, Brooklyn.....	24,688	15,410	1,127,668	62.4
Mutual Fire, New York.....	3,356	42	362,226	1.2	Phoenix, Hartford.....	10,866	846	557,591	7.8
Mutual of Chester County, Pa.....	7,227	4,820	466,913	66.0	Providence-Washington, Prov.....	27,285	8,112	1,402,353	29.7
New Castle Co. Mut., Wilmington	10,640	1,360	6,486,855	8.2	St. Paul F. and M., St. Paul.....	12,184	5,970	820,068	49.0
Totals.....	\$97,831	\$30,962	\$23,791,722	31.6					

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
FLORIDA—Continued.				
Southern, New Orleans.....	\$22,164	\$8,436	\$804,474	38.0
Springfield F. and M., Springfield	20,126	7,269	848,817	36.1
Sun Mutual, New Orleans.....	6,572	265	203,369	4.0
Western Assurance, Toronto.....	26,751	14,710	996,733	55.0
Totals	\$480,962	\$151,570	.....	31.5
GEORGIA.				
Ætna, Hartford.....	\$61,471	\$42,314	.....	68.8
American, New York.....	30,941	9,770	.....	31.4
Atlanta Home, Atlanta.....	90,986	34,782	.....	38.2
British America, Toronto.....	24,426	5,875	.....	24.0
Caledonian, Edinburgh.....	13,987	7,311	.....	52.2
Commercial Union, London.....	72,256	34,752	.....	48.1
Continental, New York.....	31,008	22,993	.....	73.9
Delaware, Hartford.....	15,930	17,609	.....	110.5
Fire Association of Philadelphia.....	18,979	12,662	.....	66.7
German-American, New York.....	24,160	13,200	.....	55.0
Germania, New York.....	89,909	34,487	.....	38.3
Glad F. and M., Philadelphia.....	2,914	1,390	.....	47.4
Glens Falls, Glens Falls.....	10,714	1,551	.....	14.4
Greenwich, New York.....	6,662	1,895	.....	28.4
Guardian, London.....	34,970	25,074	.....	71.7
Hamburg-Bremen, Hamburg.....	10,952	12,267	.....	64.3
Hanover, New York.....	43,671	30,629	.....	70.1
Hartford, Hartford.....	17,589	13,432	.....	76.3
Home, New York.....	110,954	30,571	.....	32.9
Imperial, London.....	62,305	44,240	.....	71.0
Ins. Co. of No. Am., Philadelphia.....	9,254	3,459	.....	37.4
Lancashire, Manchester.....	60,163	33,730	.....	55.7
Lion, London.....	27,803	23,624	.....	84.9
Liv. & Lon. & Globe, Liverpool.....	17,610	11,012	.....	62.5
London Assurance, London.....	110,459	63,339	.....	57.3
London & Lancashire, Liverpool.....	5,934	2,235	.....	37.6
Macon, Macon.....	261,130	12,846	.....	49.2
Mechs. & Traders, New Orleans.....	29,784	12,480	.....	41.9
Mutual, New York.....	10,789	4,335	.....	40.1
National, Hartford.....	17,667	.....	.....	40.1

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
ILLINOIS.				
Ætna, Hartford.....	\$373,674	\$241,500	\$35,771,870	64.6
Agricultural, New York.....	145,645	77,336	14,636,500	53.1
Alleghenia, Pittsburgh.....	25,622	21,511	2,711,337	83.7
American, Boston.....	45,000	18,704	2,943,285	41.5
American, Newark.....	59,030	38,815	6,468,441	65.7
American, New York.....	103,471	70,335	7,858,060	67.9
American, Philadelphia.....	122,993	67,605	10,929,267	55.0
American Central, St. Louis.....	124,536	64,236	10,784,064	51.6
Armenia, Pittsburgh.....	12,235	5,810	1,371,568	47.5
Atlanta Home, Atlanta.....	28,426	24,713	1,868,005	86.6
Atlas, London.....	79,225	57,608	7,017,149	72.0
Boylston, Boston.....	34,887	20,084	2,665,520	57.5
British America, Toronto.....	78,478	58,579	6,075,022	74.3
British and Foreign Mar., Liverpool	75,203	47,374	23,529,528	63.0
Broadway, New York.....	26,204	10,130	2,293,955	38.5
Buffalo German, Buffalo.....	46,111	24,935	4,401,636	54.0
Caledonian, Edinburgh.....	79,900	55,308	6,116,315	69.1
Capital, Concord.....	19,800	14,477	1,108,601	73.1
Citizens, New York.....	62,289	37,293	5,054,086	59.8
Citizens, Pittsburgh.....	33,566	17,393	2,883,210	51.7
Citizens, St. Louis.....	10,863	7,810	1,048,055	36.1
Commerce, Albany.....	10,866	6,909	.....	59.7
Commonwealth Union, London.....	178,010	125,174	17,419,844	70.3
Concordia, Milwaukee.....	27,819	16,311	3,633,836	58.6
Connecticut, New York.....	63,600	41,013	5,407,556	65.9
Contra Costa, New York.....	191,670	117,865	17,451,128	61.5
Continental, New York.....	208,685	141,837	15,613,453	67.9
Delaware, Philadelphia.....	34,379	32,379	4,375,112	55.9
Detroit F. and M., Detroit.....	55,046	17,983	3,580,820	60.9
Dubuque F. and M., Dubuque.....	35,490	.....	283,393	.....
Dwelling House, Boston.....	20,951	15,600	2,512,006	74.4
Eagle Fire, New York.....	18,622	11,390	1,976,945	60.9
Equitable F. and M., Providence.....	22,864	15,156	2,290,573	66.3
Eureka F. and M., Cincinnati.....	10,940	5,631	10,077,812	50.5
Farragut Fire, New York.....	8,579	3,508	603,987	40.9
Fidelity F. and M., Cincinnati.....	7,490	7,742	782,593	103.3
Firemans, Baltimore.....	19,400	11,707	1,199,169	60.3
Firemans, Chicago.....	47,148	27,886	3,143,219	59.3
Firemans, Newark.....	23,591	16,651	3,045,393	70.6

Niagara, New York.....	31,883	11,316	.....	51.7	Firemens Fire, Boston.....	36,968	14,595	3,573,387	39.2
Norwich Union, Norwich.....	35,959	15,700	.....	43.6	Fire Association, Philadelphia.....	214,427	141,194	14,424,816	65.8
No. Brit. & Mercantile, London.....	47,520	17,202	.....	57.4	Fire Ins. Co. of the Co. of Phila.....	21,902	14,868	1,520,817	68.0
Northern Assurance, London.....	25,375	20,544	.....	80.9	Firemans Fund, San Francisco.....	93,049	53,855	9,713,867	57.8
Orient, Hartford.....	29,465	15,969	.....	54.2	First National, Worcester.....	21,059	12,231	1,702,412	53.4
Pennsylvania, Philadelphia.....	39,881	15,199	.....	48.9	Franklin, Louisville.....	12,715	4,861	1,270,244	38.2
Phenix, Brooklyn.....	65,823	39,474	.....	59.9	Franklin, Philadelphia.....	26,877	14,714	2,158,224	54.7
Phenix, Hartford.....	47,453	28,161	.....	59.3	Forest City, Rockford.....	123,757	39,079	6,123,738	31.6
Queen of America, New York.....	39,097	19,202	.....	50.8	General Marine, Dresden.....	55,134	25,797	14,785,997	46.8
Royal, Liverpool.....	70,924	32,908	.....	46.3	German, Freeport.....	440,140	160,303	30,663,673	36.4
St. Paul F. and M. St. Paul.....	17,629	11,097	.....	62.9	German, Peoria.....	53,260	27,833	3,797,452	52.4
Scott. Union & Nat'l, Edinburgh.....	31,376	11,097	.....	95.8	German, Philadelphia.....	33,487	24,290	1,995,990	74.5
Southern Mutual, Athens.....	263,133	50,867	.....	19.3	German-American, New York.....	171,040	100,211	17,712,760	58.5
Sun, London.....	20,751	14,386	.....	69.3	German National, Louisville.....	1,088	1,088	103,167	49.3
Western, Toronto.....	50,146	16,368	.....	32.5	Germania Fire, New York.....	80,581	12,047,366	12,047,366	59.6
Westchester, New York.....	22,507	11,998	.....	52.7	Girard F. and M., Philadelphia.....	58,884	79,757	9,939,697	53.6
Williamsburgh City, Brooklyn.....	13,670	6,991	.....	51.1	Glens Falls, Glens Falls.....	109,718	142,362	17,753,130	56.0
Totals.....	\$2,218,145	\$926,599	.....	41.7	Grand Rapids Fire, Grand Rapids.....	38,754	19,462	2,645,776	50.2
IDAHO.					Greenwich F. and L., London.....	80,240	31,211	6,564,515	68.9
Ætna, Hartford.....	\$6,209	\$3,993	\$237,011	63.3	Guardian F. and L., London.....	80,240	42,619	6,564,515	53.1
American, New York.....	585	1,570	19,005	260.9	Hanover Fire, New York.....	127,753	61,474	9,737,096	48.1
Atlas, London.....	1,824	470	63,650	25.6	Hartford, Hartford.....	124,579	74,587	10,108,179	59.8
British America, Toronto.....	461	3,340	17,268	725.9	Home, New York.....	324,598	216,405	27,765,699	63.2
Caledonian, Edinburgh.....	5,369	8,212	193,254	152.9	Imperial, London.....	459,846	270,524	44,829,957	58.8
Citizens, New York.....	512	1,448	16,227	22.8	Insurance Co. of N. A., Phila.....	184,158	117,496	5,776,977	63.8
Delaware, Philadelphia.....	212	10	8,160	4.7	Ins. Co. of the State of Pa., Phila.....	51,155	44,086	4,420,319	86.2
Fire Association, Philadelphia.....	2,095	9,969	68,465	189.4	Kings County Fire, Brooklyn.....	15,100	8,691	1,404,517	57.2
Girard F. and M., Philadelphia.....	60	.....	2,000	.....	Lancashire, Manchester.....	145,886	134,324	11,531,682	62.0
Greenwich, New York.....	233	1,539	8,500	660.5	Lion, London.....	86,530	56,002	7,489,378	69.6
Guardian, London.....	1,528	2,752	.....	180.1	Liv. and London and Globe, Liv.....	305,601	222,417	23,041,582	72.7
Hanover, New York.....	1,024	2,886	32,453	22.1	London Assurance, London.....	143,980	78,271	12,669,688	54.3
Hartford, Hartford.....	6,295	3,323	221,502	52.8	London and Lancashire, Liv.....	137,169	85,584	10,196,265	62.0
Home, New York.....	5,698	5,468	274,225	96.5	Lumbermens, Philadelphia.....	26,796	14,748	2,161,072	55.4
Lancashire, Manchester.....	1,417	300	51,700	21.1	Manchester, Manchester.....	231,928	125,624	2,193,463	54.1
National, Hartford.....	5,473	3,127	101,433	57.1	Mrs. and Merchs., Pittsburgh.....	27,326	13,942	2,887,422	51.0
Niagara, New York.....	3,048	3,912	122,995	107.2	Mannheim, Mannheim.....	64,622	43,454	2,908,797	67.1
North British and Mercantile, Lon.....	1,792	1,792	129,997	61.9	Marine, London.....	42,326	24,326	7,514,579	125.0
Norwich Union, Norwich.....	3,266	5,485	233,788	167.9	Mechanics, Philadelphia.....	33,617	24,017	3,101,143	62.2
Pennsylvania, Philadelphia.....	495	.....	.....	.....	Mechanics and Traders, N. O.....	24,713	7,638	2,149,541	33.6
Phenix, Hartford.....	5,699	5,497	274,225	96.4	Mercantile F. and M., Boston.....	21,135	21,135	3,584,854	58.2
Phenix, London.....	2,119	156	70,478	7.4	Merchants, Newark.....	66,147	58,463	5,619,925	57.2
Providence-Washington, Prov.....	2,115	42	.....	2.0	Merchants, Providence.....	22,804	15,156	2,290,573	66.3
Royal, Liverpool.....	3,266	5,485	133,788	107.9	Michigan F. and M. Detroit.....	43,851	27,708	3,261,355	63.2
Scottish Union and Nat'l, Edin'gh.....	1,079	42,325	70,512	79.8	Milwaukee Mechs., Milwaukee.....	102,108	50,792	8,376,269	49.7
Western, Toronto.....	2,218	1,120	70,512	50.5	National Fire, Hartford.....	185,738	131,939	15,350,281	70.5
Totals.....	\$66,165	\$67,093	\$2,458,859	101.3	Newark, Newark.....	25,204	18,622	1,911,137	73.9
					New Hampshire, Manchester.....	89,310	42,822	8,465,413	47.9

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
ILLINOIS—Continued.				
New York, New York.....	\$6,017	\$137	\$508,150	2.2
Niagara, New York.....	133,780	91,725	9,160,635	68.5
North American, Boston.....	12,498	11,668	1,268,961	93.2
Northern Assurance, London.....	110,582	65,321	8,995,275	59.0
North British and Merc., London.....	160,851	113,734	12,753,173	70.6
North German Fire, Germany.....	71,912	462	4,754,104	.6
North River, New York.....	20,093	8,709	1,604,013	43.3
Northwestern National, Milw. Ice.	93,585	66,568	10,275,799	71.1
Norwich Union, Norwich.....	136,687	73,569	11,350,488	53.8
Ohio, Cincinnati.....	10,668	7,612	928,054	71.3
Orient, Hartford.....	130,708	131,399	13,660,157	100.5
Pacific, New York.....	36,687	14,573	3,807,914	37.5
Palatine, Manchester.....	67,966	13,502	5,102,484	19.8
Pennsylvania, Philadelphia.....	105,622	78,106	8,465,404	73.6
Phoenix, Brooklyn.....	579,443	322,965	42,607,518	57.8
Phoenix, Hartford.....	202,936	119,930	15,931,211	59.1
Phoenix, London.....	139,716	56,906	10,804,439	40.7
Providence-Washington, Prov.....	67,481	45,518	6,839,897	67.4
Prussian National, Stettin.....	58,524	29,271	4,690,500	50.0
Queen, New York.....	202,972	147,379	15,027,997	72.5
Reading, Reading.....	40,459	34,705	3,184,793	85.8
Reliance, Philadelphia.....	44,792	15,839	5,393,736	35.3
Reliance Marine, Liverpool.....	36,576	22,225	6,272,689	61.0
Rochester German, Rochester.....	89,411	48,584	6,056,393	54.3
Royal, London.....	338,196	104,746	26,623,284	46.0
Ruigers, New York.....	244,641	127,648	23,671,986	52.1
Saginaw Val. F. and M., Saginaw.....	19,568	8,579	1,752,517	43.9
St. Paul F. and M., St. Paul.....	9,550	4,068	438,825	42.5
Scottish U. and Nat., Edinburgh.....	61,544	41,318	6,119,767	67.1
Sea, Liverpool.....	134,469	80,742	12,365,685	60.0
Security, Cincinnati.....	8,718	4,449	1,759,237	51.0
Security, New Haven.....	10,940	5,531	1,077,812	50.5
Springfield F. and M., Springfield.....	38,964	30,921	3,684,483	79.3
Spring Garden, Philadelphia.....	159,630	104,103	12,022,360	65.3
Standard Marine, Liverpool.....	32,215	22,003	4,437,651	68.3
Sun, San Francisco.....	13,527	26,822	1,841,372	198.5
Sun Insurance Office, London.....	29,704	34,785	4,740,864	116.8
Sun Mutual, New Orleans.....	136,507	110,680	10,241,320	81.0
	39,206	10,952	4,868,976	27.9
INDIANA—Continued.				
Citizens, St. Louis.....	\$7,228	\$4,344		60.1
Commercial Union, London.....	44,600	26,889		60.3
Concordia, Milwaukee.....	26,804	25,720		95.9
Connecticut, Hartford.....	54,001	29,212		54.1
Continental, New York.....	204,959	125,300		61.1
Delaware, Philadelphia.....	9,724	1,329		13.6
Detroit F. and M., Detroit.....	4,140	4,140		76.9
Farmers, York.....	17,600	21,513		122.2
Fire Association, Philadelphia.....	43,846	29,468		67.2
Firemen, Baltimore.....	801	2,010		260.6
Firemans Fund, San Francisco.....	43,994	21,152		48.1
Franklin, Philadelphia.....	28,411	15,954		56.1
German, Freeport.....	69,894	48,985		70.1
German, Peoria.....	3,077	3,451		112.1
German Mutual, Indiana.....	17,767	12,741		71.7
German Mutual, Indianapolis.....	5,818	5,289		90.9
German-American, New York.....	84,631	39,958		46.1
Germania, New York.....	52,212	50,901		97.5
Girard F. and M., Philadelphia.....	10,780	5,238		57.8
Glens Falls, Glens Falls.....	17,438	8,341		47.8
Greenwich, New York.....	9,242	5,819		62.9
Guardian, London.....	13,382	11,484		85.8
Hamburg-Bremen, Hamburg.....	21,351	11,679		54.7
Hanover, New York.....	47,411	47,541		100.2
Hartford, Hartford.....	131,087	77,850		59.3
Home, New York.....	337,062	163,255		48.4
Imperial, London.....	13,202	4,868		36.8
Ins. Co. of No. America, Philadel.	79,120	52,322		66.2
Lancashire, Manchester.....	48,145	24,924		49.9
Lion, London.....	3,483	2,812		80.6
Liv. & Lon. & Globe, Liverpool.....	72,518	41,946		57.8
London Assurance, London.....	20,588	14,940		72.5
London & Lancashire, Liverpool.....	28,076	21,058		75.0
Manchester, Manchester.....	44,701	32,596		72.9
Merchants, New York.....	17,954	5,575		39.6
Michigan F. and M., Detroit.....	17,939	13,211		73.7
Milwaukee Mechanics.....	68,859	39,481		57.3
National, Hartford.....	44,576	30,987		69.5
Newark.....	2,245	617		27.5

Teutonia, Philadelphia.....	7881	3,535	575,397	44.8	New Hampshire, Manchester.....	17,450	9,015	51.6
Teutonia, New Orleans.....	18,003	11,445	1,817,657	63.5	New York Bowery, New York.....	3,850	3,973	103.2
Thames and Mersey, Liverpool..	14,692	186	4,250,011	1.2	Niagara, New York.....	40,444	40,444	67.2
Traders, Chicago.....	187,232	95,123	15,495,592	50.8	Northern, Assurance, London....	35,739	23,799	66.6
Transatlantic, Hamburg.....	63,391	26,480	5,855,496	41.8	North Brit. & Mercantile, London	131,939	92,827	70.3
Union, Philadelphia.....	20,165	15,136	2,204,416	75.0	Northwestern Nat'l, Milwaukee..	37,969	17,363	40.3
Union Assur. Society, London....	62,556	23,055	4,615,721	36.8	Norwich Union, Norwich.....	32,000	27,115	84.6
Union Marine, Liverpool.....	48,958	23,204,535	23,204,535	.....	Orient, Hartford.....	33,973	39,042	86.3
United Firemen, Philadelphia....	32,069	18,413	2,324,408	57.4	Pacific, New York.....	15,100	7,806	96.3
United States, New York.....	29,479	11,800	3,680,861	40.0	Pennsylvania, Philadelphia.....	33,276	15,597	51.7
Washington, Cincinnati.....	6,191	6,093	657,850	98.4	Peoples, Manchester.....	3,710	3,125	46.6
Westchester, New York.....	110,430	52,862	9,055,900	48.0	Phoenix, Brooklyn.....	193,978	135,449	84.2
Western, Pittsburgh.....	19,358	16,172	1,727,043	83.5	Phoenix, Hartford.....	150,874	102,774	69.9
Western, Toronto.....	117,459	71,324	9,479,734	60.7	Prussian National, Stettin.....	23,782	11,001	68.1
Williamsburgh City, Brooklyn..	43,442	29,149	3,592,668	67.1	Queen, New York.....	9,993	4,652	46.2
Totals	\$12,738,202	\$7,723,340	\$1,145,099,815	60.6	Reading, Reading, Rochester.....	52,894	33,121	50.0
Admission Farmers Mut., Addison.	\$5,763	\$4,009	\$514,513	85.2	Rochester German, Rochester....	15,124	12,084	62.6
American Farmers Mut., Providence.	11,779	67	1,311,204	-5	Rockford, Rockford.....	12,084	6,317	92.2
Central Mfrs. Mutual, Van Wert.	13,566	7,433	870,795	55.0	Royal, Liverpool.....	32,304	5,568	52.3
Enterprise Mutual, Providence..	11,813	67	1,390,015	-5	St. Paul F. and M.....	178,993	73,208	17.2
Farmers, York.....	31,478	26,752	2,257,145	84.9	Scot. Union & Nat'l, Edinburgh..	11,966	7,352	40.9
Lumbermans Mutual, Chicago....	11,037	70	692,578	-6	Springfield F. & M., Springfield..	20,454	8,361	61.4
Mfrs. & Merch. Mut., Rockford..	22,706	4,172	1,060,835	18.3	Spring Garden, Philadelphia.....	67,232	32,866	48.8
Mercantile Mutual, Providence..	9,225	109	851,153	1.2	Sun, London.....	9,194	1,385	15.1
Millers Mutual, Alton.....	55,856	42,686	721,023	76.4	Teutonia, Dayton.....	20,140	23,947	82.2
Millers National, Chicago.....	17,937	16,122	1,140,633	89.8	Traders, Chicago.....	12,613	4,571	36.2
Mutual, New York.....	63,257	10,996	3,688,528	17.4	Union Assurance, London.....	51,937	59,532	97.3
Phila. Mfrs. Mutual, Phila.....	7,046	53	751,795	-7	United Firemen, Philadelphia....	3,829	993	23.5
Protection Mutual, Chicago.....	9,745	53	768,849	-5	Western Assurance, Toronto.....	5,822	5,567	95.6
Pulaski Mutual, Chicago.....	14,792	395	832,100	2.0	Westchester, New York.....	59,905	41,162	68.6
Totals	\$286,033	\$113,799	\$16,811,048	39.8	Williamsburgh City, Brooklyn....	41,235	24,827	60.2
Indiana, Hartford.....	\$80,486	72.6	.....	.....	Totals	\$3,483,752	\$2,139,657	61.4
Allemania, Pittsburgh.....	9,370	48.2	.....	.....	Indiana Territory.....	.....	.....	.....
Agricultural, Watertown.....	13,044	7,413	.....	.....	Atena, Hartford.....	\$2,709	\$1,501	55.4
American, Newark.....	14,971	7,696	.....	.....	American, Newark.....	5,090	1,800	35.8
American, New York.....	33,935	31,476	.....	.....	Caledonian, Edinburgh.....	5,145	1,593	29.6
American, Philadelphia.....	18,195	23,831	.....	.....	Delaware, Philadelphia.....	.....	588	.....
American Central, St. Louis.....	11,727	4,910	.....	.....	Equitable F. and M., Providence..	17	.....	.....
Atlas, London.....	10,824	2,513	.....	.....	Fire Association, Philadelphia....	4,695	1,423	30.3
British America, Toronto.....	22,583	13,469	.....	.....	Greenwich, New York.....	23,616	1,609	496.6
Buffalo American, Buffalo.....	26,599	9,621	.....	.....	Hartford, Hartford.....	2,500	250	10.0
Caledonian, Edinburgh.....	20,524	7,941	.....	.....	National, Hartford.....	343	.....	.....

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
IOWA.				
Ætna, Hartford.....	\$70,653	\$41,086	\$4,997,538	58.1
Agricultural, Watertown.....	8,312	2,983	697,100	35.9
American, Boston.....	4,424	5,439	373,481	122.9
American, Newark.....	9,279	3,878	893,395	41.8
American Central, St. Louis.....	15,384	4,912	1,079,824	31.9
American, New York.....	14,489	11,493	833,395	79.3
American, Philadelphia.....	21,337	13,228	1,755,592	53.0
Atlas, London.....	6,920	7,664	474,595	110.7
Boylston, Boston.....	2,420	2,811	145,360	116.1
British America, Toronto.....	14,253	4,491	885,991	31.5
Buffalo German, Buffalo.....	10,459	7,739	978,823	67.4
Caledonian, Edinburgh.....	10,873	5,600	648,978	51.7
Capital, Des Moines.....	88,300	46,473	4,351,566	52.6
Columbian, Philadelphia.....	6,317	3,085	471,824	48.8
Columbia, Louisville.....	5,625	16,356	.....	290.8
Commercial Union, London.....	40,991	29,793	3,166,022	72.4
Concordia, Milwaukee.....	11,953	9,263	910,732	77.5
Continental, Hartford.....	139,832	32,094	3,665,027	66.8
Continental, New York.....	70,976	68,381	10,777,841	48.9
Council Bluffs, Council Bluffs.....	5,920	23,768	3,225,950	43.8
Delaware, Philadelphia.....	163,902	6,184	440,704	104.4
Des Moines, Des Moines.....	396,292	16,757	16,757,622	50.2
Detroit F. and M., Detroit.....	5,954	8,506	595,809	124.8
Dubuque F. and M., Dubuque.....	81,180	42,163	4,425,549	51.9
Dwelling House, Boston.....	3,837	1,846	497,822	48.1
Eagle, New York.....	4,422	957	426,085	21.6
Equitable F. and M., Providence.....	2,231	3,157	193,766	141.5
Farmers, Cedar Rapids.....	269,947	129,927	13,290,097	48.1
Fire Association, Philadelphia.....	48,165	36,166	2,861,960	75.1
Firemens, Chicago.....	1,954	3,984	102,567	203.9
Firemens, Newark.....	7,534	5,182	793,425	68.8
Firemans Fund, San Francisco.....	15,877	9,113	1,324,800	57.4
Franklin, Philadelphia.....	12,159	7,865	994,663	64.2
German, Freeport.....	195,000	88,706	8,117,811	56.8
German, Peoria.....	6,822	10,310	397,744	151.1
Germania, New York.....	21,197	6,594	1,617,048	30.7
German-American, New York.....	49,516	42,513	3,469,593	85.8
Girard F. and M., Philadelphia.....	14,946	4,833	1,161,170	32.3
Glens Falls, Glens Falls.....	8,647	3,902	788,155	45.1
Totals.....				
IOWA—Continued.				
Rockford, Rockford.....	\$22,132	\$34,388	\$2,699,719	107.0
Royal, London.....	31,959	23,074	2,216,858	72.2
St. Paul F. and M., St. Paul.....	34,391	19,265	2,587,417	56.0
Scottish Union and Natl., Edinb'g.....	9,993	15,353	792,244	155.0
Security, New Haven.....	13,120	12,855	1,013,831	98.0
Security, Davenport.....	94,527	53,734	6,392,209	56.8
Springfield F. and M., Springfield.....	51,328	29,863	3,450,705	58.1
Sun, London.....	266,949	125,473	11,265,617	66.6
Syndicate, Minneapolis.....	15,597	19,692	1,166,210	126.8
Traders, Chicago.....	2,241	2,233	113,091	99.6
Union, Philadelphia.....	17,937	11,363	1,115,642	63.3
Union, London.....	7,244	5,054	673,176	69.7
United States, New York.....	3,770	6,443	239,298	170.9
Westchester, New York.....	3,519	3,795	381,596	105.8
Western, Toronto.....	31,717	18,789	2,296,262	59.2
Williamsburgh City, Brooklyn.....	42,027	26,431	2,793,219	62.9
Totals.....	\$3,798,693	\$2,290,699	\$239,828,404	60.3
Mutual Companies.				
Anchor, Creston.....	\$73,741	\$9,680	\$1,574,189	13.1
Fidelity, Des Moines.....	158,651	23,743	5,361,911	14.9
German, Davenport.....	7,557	545	1,614,680	72.1
Iowa State, Keokuk.....	96,549	39,150	3,734,593	40.5
Merch. and Bankers, Des Moines.....	77,173	21,078	1,068,689	27.3
Mill Owners, Des Moines.....	32,889	22,478	38,500	68.3
Underwriters, Sioux City.....	61,465	8,640	916,103	14.0
Farmers, York.....	15,515	11,214	985,584	72.2
Totals.....	\$457,173	\$136,798	\$15,294,459	29.9
KANSAS.				
Ætna, Hartford.....	\$44,668	\$32,662	\$2,964,964	73.0
Agricultural, Watertown.....	7,997	2,476	624,700	31.2
Atlas, London.....	5,151	.....	393,686	.....
American, Newark.....	8,518	4,545	811,225	53.3
American, New York.....	7,012	3,975	611,331	56.7
American Central, St. Louis.....	23,084	15,264	1,451,519	66.1

Grand Rapids, Grand Rapids.....	5,851	5,207	380,903	88.9	Boylston, Boston.....	4,575	2,280	303,967	49.8
Greenwich, New York.....	3,551	4,602	312,218	129.6	British America, Toronto.....	10,598	5,054	639,607	53.3
Guarantia, London.....	10,070	9,996	693,573	99.2	Caledonia, Edinburgh.....	10,847	9,117	680,746	84.0
Hamburg-Bremen, Hamburg.....	11,812	5,553	721,207	47.0	Columbian, Louisville.....	7,959	5,068	879,267	63.6
Hanover, New York.....	20,247	18,602	1,341,886	89.2	Commercial Union, London.....	45,931	25,993	3,405,196	58.4
Hartford, Hartford.....	95,810	44,432	6,797,491	44.2	Concordia, Milwaukee.....	10,072	5,755	810,854	57.1
Hawkeye, Des Moines.....	294,388	101,108	15,620,431	34.3	Connecticut, Hartford.....	38,286	18,577	3,091,439	48.5
Home, New York.....	135,925	88,880	11,269,854	65.8	Continental, New York.....	134,680	74,188	12,091,429	55.0
Imperial, London.....	6,770	9,277	410,605	137.0	Delaware, Philadelphia.....	13,490	3,734	1,019,845	97.6
Indemnity, Davenport.....	19,796	8,637	1,227,181	43.6	Farragut, New York.....	9,220	4,378	684,112	47.4
Ins. Co. of N. America, Phila.....	70,074	46,870	4,382,779	68.9	Fire Association, Philadelphia.....	16,976	5,444	947,886	31.9
Ins. Co. State Pennsylvania, Phila.....	4,959	5,198	405,573	104.8	Firemans Fund, San Francisco.....	20,637	7,023	1,812,281	37.0
Iowa, Des Moines.....	53,234	15,884	3,345,393	29.8	Franklin, Philadelphia.....	7,440	2,080	558,192	29.1
Key City, Dubuque.....	15,842	4,204	1,082,486	27.1	German, Freeport.....	173,442	107,337	8,433,820	61.8
Lancashire, Manchester.....	26,280	15,538	1,611,439	59.1	German-American, New York.....	56,799	29,133	3,644,358	51.3
Lion, London.....	2,740	2,630	222,310	96.0	Germania, New York.....	16,936	7,956	1,339,855	47.0
Liv. and Lon. and Globe, Liv.....	63,312	45,010	4,746,499	71.1	Girard F. and M., Philadelphia.....	3,845	2,260	313,397	58.8
London Assurance, London.....	12,126	14,455	860,793	119.2	Glens Falls, Glens Falls.....	10,750	4,911	971,490	45.6
London and Lancashire, London.....	17,958	14,250	1,071,320	83.5	Greenwich, New York.....	3,589	379	319,805	10.5
Manchester, Manchester.....	23,730	31,211	862,823	131.5	Guarantia, London.....	6,755	6,755	460,201	105.7
Mrs. and Merchants, Pittsburgh.....	2,384	3,393	179,532	138.5	Hamburg-Bremen, Hamburg.....	8,670	5,516	532,142	63.6
Mechanics, Philadelphia.....	4,936	2,677	341,935	54.2	Hanover, New York.....	7,888	3,645	568,560	46.5
Mercantile F. and M., Boston.....	5,010	4,802	485,142	95.8	Hartford, Hartford.....	63,699	27,543	4,387,522	43.3
Merchants and Mfrs., Clinton.....	43,164	19,828	2,748,956	45.9	Horne, New York.....	154,653	77,200	15,917,997	49.9
Merchants, Newark.....	9,820	5,646	881,290	57.5	Imperial, London.....	5,568	1,100	388,271	19.7
Michigan F. and M., Detroit.....	2,231	3,157	193,766	141.5	Ins. Co. of North America, Phila.....	35,674	18,369	2,187,207	51.5
Milwaukee Mechanics, Milwaukee.....	6,568	4,364	402,967	66.4	Ins. Co. State of Pa., Philadelphia.....	1,624	.....	119,150	.....
National, Hartford.....	22,024	22,024	2,528,213	67.5	Lancashire, Manchester.....	14,595	13,782	925,004	95.0
Newark, Newark.....	1,854	1,041	101,450	76.9	Liv. & Lon. & Globe, Liverpool.....	34,605	22,335	2,283,957	64.4
New Hampshire, Manchester.....	19,860	16,445	1,666,911	82.8	London Assurance, London.....	13,578	13,562	1,097,582	87.0
Niagara, New York.....	24,071	12,192	1,172,625	50.6	London & Lancashire, Liverpool.....	8,917	5,840	584,100	65.5
Northern, London.....	15,943	8,818	1,076,287	55.3	Manchester, Manchester.....	22,331	14,348	1,469,425	62.2
N. British and Mercantile, London.....	41,274	20,959	2,756,616	59.7	Merchants, Newark.....	19,867	7,974	931,728	74.7
Northwestern Nat'l, Milwaukee.....	33,762	16,858	2,990,571	49.9	Milwaukee Mechanics, Milwaukee.....	10,670	12,016	1,689,220	65.0
Norwich Union, Norwich.....	15,131	9,338	911,997	61.7	National, Hartford.....	34,860	11,822	2,722,690	34.1
Orient, Hartford.....	16,472	9,037	1,462,094	54.8	New Hampshire, Manchester.....	18,588	6,543	1,546,975	35.2
Pacific, New York.....	8,660	6,799	749,091	76.5	Niagara, New York.....	34,459	21,900	1,494,959	63.7
Palatine, Manchester.....	7,432	4,611	438,068	62.0	North Brit. & Mercantile, London.....	36,612	35,347	2,394,934	96.5
Pennsylvania, Philadelphia.....	24,477	13,488	1,414,195	55.1	Northern Assurance, London.....	12,487	7,743	774,823	65.2
Phoenix, Brooklyn.....	60,395	80,099	8,775,242	53.6	Northwestern National, Milwaukee.....	17,876	6,261	1,885,881	35.0
Phoenix, Hartford.....	140,228	80,099	4,419,424	53.8	Norwich Union, Norwich.....	13,999	6,073	882,750	43.6
Phoenix, London.....	13,006	9,620	822,712	74.8	Oakland Home, Oakland.....	29,044	24,065	2,097,472	82.8
Providence-Washington, Prov.....	8,125	6,471	771,661	79.6	Orient, Hartford.....	11,059	7,104	987,046	64.2
Prussian National, Stettin.....	5,248	2,483	367,481	47.3	Pacific, New York.....	8,205	1,979	594,868	23.9
Queen of America, New York.....	21,701	12,204	1,403,668	56.2	Palatine, Manchester.....	3,941	253	266,790	6.4
Reliance, Philadelphia.....	2,208	.....	243,536	.....	Pennsylvania, Philadelphia.....	16,057	5,354	942,662	33.3
Rochester German, Rochester.....	7,829	4,337	532,489	55.4	Phoenix, Brooklyn.....	102,854	57,233	6,754,700	55.6
					Phoenix, Hartford.....	63,399	26,499	3,988,598	41.8

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
KANSAS—Continued.				
Phoenix Assurance, London.....	\$15,578	\$9,553	\$1,039,722	61.3
Providence-Washington, Prov.....	12,895	6,905	737,092	53.5
Prussian National, Sietlin.....	2,820	203	194,080	10.3
Queen, New York.....	27,723	12,173	1,716,793	43.9
Reliance, Liverpool.....	7,102	5,180	612,462	72.9
Royal, Liverpool.....	22,361	8,266	1,538,953	36.9
St. Paul F. and M., St. Paul.....	15,770	11,870	1,201,676	75.2
Shawnee, Topeka.....	79,095	29,966	5,012,267	37.8
Southern, New Orleans.....	4,701	7,430	269,495	158.1
Springfield F. & M., Springfield.....	52,751	19,240	3,419,822	36.5
State, Des Moines.....	8,199	3,413	917,077	41.6
Spring Garden, Philadelphia.....	74,350	39,128	4,047,343	52.6
Sun Insurance Office, London.....	17,750	8,157	1,139,183	45.9
Syndicate, Minneapolis.....	1,593	1,007	91,620	67.0
Traders, Chicago.....	13,725	11,108	739,687	80.9
Westchester, New York.....	35,020	26,176	2,659,400	74.7
Western, Toronto.....	14,681	7,084	1,174,482	54.4
Williamsburgh City, Brooklyn.....	8,600	2,814	701,077	32.6
Totals.....	\$1,924,463	\$1,044,173	\$137,108,900	54.2
Mutual Companies.				
Bremen Farmers.....	\$1,346	\$95	\$241,560	7.0
Farmers Mutual, Holyrood.....	1,119	716	111,997	64.0
Marshall County Farmers.....	121	137	30,185	113.2
Menonite Mutual.....	1,633	1,114	278,546	68.2
Republic County.....	2,587	730	438,220	28.2
Southern Kansas, Wellington.....	715	261	90,241	36.5
Totals.....	\$7,721	\$3,253	\$1,191,609	42.1
KENTUCKY.				
Ætna, Hartford.....	\$81,561	\$46,669	\$5,250,829	57.2
Agricultural, Watertown.....	10,955	13,511	997,100	123.1
American, Boston.....	8,402	10,885	726,672	128.1
American, New York.....	24,176	37,691	1,472,646	155.6
American, Philadelphia.....	22,799	37,078	1,905,054	103.1
American Central, St. Louis.....	9,915	9,990	637,795	93.7
Atlas, London.....	11,543	3,073	789,545	26.6
KENTUCKY—Continued.				
New York Bowers, New York.....	\$35,375	\$36,828	\$2,313,456	104.1
Niagara, New York.....	35,438	41,624	2,287,056	117.4
N. British and Mercantile, London.....	47,221	44,861	3,191,111	95.0
Northern, London.....	31,264	25,117	2,430,643	80.3
Northwestern Natl., Milwaukee.....	12,066	7,660	1,096,211	58.5
Norwich Union, Norwich.....	26,189	32,316	1,625,589	123.3
Pacific, New York.....	4,125	3,942	420,382	95.5
Palatine, London.....	4,558	.....	314,075	.....
Pennsylvania, Philadelphia.....	27,199	26,498	1,669,047	97.4
Phoenix, Brooklyn.....	58,915	58,747	4,291,200	89.7
Phoenix, Hartford.....	77,710	65,357	4,836,687	84.0
Phoenix, London.....	32,351	20,342	2,250,760	62.9
Providence-Washington, Prov.....	9,512	11,739	1,049,374	123.4
Prussian National, Sietlin.....	13,331	13,731	968,370	103.0
Queen, New York.....	72,016	82,266	4,386,732	114.2
Reading, Reading.....	7,545	9,684	718,107	128.3
Rochester German, Rochester.....	5,496	9,065	388,283	165.0
Royal, Liverpool.....	337,592	264,666	22,159,665	78.3
St. Paul F. and M., St. Paul.....	10,688	1,713	799,697	16.0
Scottish Union and Natl., Edinb'g.....	49,964	59,476	4,746,547	105.0
Security, Cincinnati.....	9,242	15,183	610,484	164.2
Springfield F. and M., Springfield.....	33,347	35,973	2,167,262	105.1
Sun, London.....	21,389	20,795	1,581,265	97.2
Teutonia, New Orleans.....	1,279	2,089	123,175	164.5
Traders, Chicago.....	21,951	19,478	1,364,534	88.7
Transatlantic, Hamburg.....	10,868	8,401	968,991	77.3
Union, London.....	9,695	11,311	786,974	135.5
Union, Philadelphia.....	8,378	11,360	907,795	135.5
United Firemans, Philadelphia.....	5,209	5,236	388,014	100.5
United States, New York.....	10,086	5,885	951,525	58.3
Westchester, New York.....	16,170	16,377	1,166,152	101.3
Western, Louisville.....	15,300	15,552	1,203,376	101.2
Western, Toronto.....	31,080	24,697	1,882,404	79.4
Williamsburgh City, Brooklyn.....	5,785	9,183	480,023	158.7
Totals.....	\$2,739,868	\$2,364,664	\$201,859,594	86.3
Mutual Companies.				
Citizens, Petersburg.....	\$1,401	\$470	\$327,850	33.5

Boylston, Boston.....	3,956	3,681	322,979	93.0	Falls City German, Louisville.....	3,421	2,380	246,930	69.5
British America, Toronto.....	12,617	12,007	861,524	95.6	Farmers Home, Flemington.....	.....	6,000	65,812	.....
Buffalo German, Buffalo.....	10,486	9,598	1,071,479	91.4	Farmers, Burlington.....	652	39	280,849	6.0
Caledonian, Edinburgh.....	23,114	23,953	2,310,976	103.6	German, Louisville.....	787	359	73,225	45.6
Capital, Concord.....	590	.....	43,600	.....	Hurst Home, Millersburg.....	4,305	2,193	379,375	50.9
Citizens, Pittsburgh.....	7,205	2,688	737,180	37.3	Kentucky and Louisville, Louisville.....	19,981	14,604	707,315	73.1
Columbian, Louisville.....	36,301	17,786	.....	49.0	Louisville German, Louisville.....	1,995	2,711	159,850	140.8
Commerce, Albany.....	3,024	996	281,706	39.9	Newport, Newport.....	3,593	1,595	406,795	44.4
Commercial Union, London.....	46,871	58,546	3,315,459	124.9	Totals.....	\$36,065	\$30,351	\$2,707,911	84.1
Connecticut, Hartford.....	20,151	30,151	3,527,866	101.1	LOUISIANA.*				
Continental, New York.....	49,668	24,597	5,274,617	49.3	Ætna, Hartford.....	\$37,462	\$11,826	.....	31.5
Delaware, Philadelphia.....	5,715	2,578	452,811	45.1	American, New York.....	25,917	14,681	.....	56.6
Detroit F. and M., Detroit.....	6,464	578	723,146	8.9	American, Philadelphia.....	30,569	17,971	.....	58.8
Equitable F. and M., Providence.....	3,656	5,210	329,539	124.5	Atlanta Home, Atlanta.....	16,108	7,338	.....	45.5
Fire Association, Philadelphia.....	41,433	59,436	2,486,915	121.7	British America, Toronto.....	12,202	2,852	.....	20.0
Firemans Fund, San Francisco.....	37,127	20,437	3,170,560	79.3	British and Foreign Marine, Liv.....	39,925	7,990	.....	18.2
Franklin, Louisville.....	56,187	83,633	4,682,225	148.8	Caledonian, Edinburgh.....	23,864	6,958	.....	29.4
Franklin, Philadelphia.....	10,490	9,913	724,096	94.4	Columbian, Louisville.....	5,502	2,508	.....	49.4
Franklin, Philadelphia.....	52,512	50,738	4,799,311	96.6	Commercial Union, London.....	45,201	17,615	.....	38.9
German-American, New York.....	21,032	11,318	1,682,593	53.8	Continental, New York.....	28,458	13,761	.....	48.3
German, Louisville.....	7,392	5,167	686,800	69.9	Delaware, Philadelphia.....	10,877	6,054	.....	55.6
German National, Louisville.....	12,794	4,745	944,858	37.1	Farragut, New York.....	12,155	4,541	.....	37.4
German Security, Louisville.....	12,878	9,624	967,380	74.7	Firemans Fund, San Francisco.....	20,519	16,984	.....	82.7
Germania, New York.....	11,048	6,867	945,988	61.7	General Marine, Dresden.....	27,185	2,202	.....	8.1
Glens Falls, Glens Falls.....	13,526	13,526	728,791	100.0	Georgia Home, Columbus.....	14,491	8,040	.....	55.5
Greenwich, New York.....	22,834	20,074	1,545,199	87.9	German-American, New York.....	19,283	19,283	.....	35.1
Guardian, London.....	24,678	19,159	1,585,182	77.6	Girard F. and M., Philadelphia.....	12,914	98	.....	8
Hamburg-Bremen, Hamburg.....	26,170	37,858	1,713,439	144.6	Greenwich, New York.....	26,599	9,335	.....	35.1
Hanover, New York.....	71,910	35,742	5,759,038	49.7	Hamburg-Bremen, Hamburg.....	31,443	22,360	.....	70.9
Hartford, Hartford.....	71,910	71,340	12,718,712	59.2	Hanover, New York.....	10,728	5,015	.....	46.7
Home, New York.....	120,422	71,340	899,796	131.1	Hartford, Hartford.....	57,616	19,363	.....	33.6
Imperial, London.....	10,951	14,362	2,970,889	87.0	Home, New York.....	11,366	11,366	.....	36.3
Ins. Co. of N. America, Phila.....	46,057	40,066	610,282	64.7	Ins. Co. of N. America, Phila.....	157,528	9,980	.....	6.3
Ins. Co. State of Pa., Phila.....	8,667	5,609	1,384,666	153.1	Imperial, London.....	19,970	10,588	.....	53.0
Lancashire, Manchester.....	41,201	32,805	2,570,178	79.6	La Fonderie Trans. Marine, Paris.....	12,375	.....	.....	.....
Lancashire, Manchester.....	15,825	24,219	7,039,378	75.2	Lancashire, Manchester.....	31,948	23,982	.....	75.0
Lion, London.....	105,869	79,657	3,222,869	75.0	Lancashire, Manchester.....	71,182	71,182	.....	47.3
Lion and Lon. and Globe, Liv.....	47,487	35,669	14,625,311	83.1	Liv. and London and Globe, Liv.....	172,643	60,798	.....	35.2
London and Lancashire, Liverpool.....	193,771	102,186	3,070,054	91.3	London Assurance, London.....	16,952	5,444	.....	32.1
Louisville, Louisville.....	55,760	50,945	3,009,865	30.8	London and Lancashire, London.....	53,003	11,386	.....	21.4
Mech. and Traders, New Orleans.....	25,835	7,965	282,101	28.6	Manchester, Manchester.....	28,779	11,378	.....	39.5
Mercantile F. and M., Boston.....	2,668	7,660	1,426,323	191.9	Marine, London.....	106,657	16,332	.....	15.3
Merchants, Newark.....	17,064	32,711	329,539	142.5	Merchants, Newark.....	14,601	5,601	.....	38.3
Merchants, Providence.....	3,656	5,210	694,311	124.8	Milwaukee Mechanics, Milwaukee.....	20,775	11,049	.....	53.2
Michigan F. and M., Detroit.....	10,499	15,947	1,647,076	59.6	National, Hartford.....	13,749	2,178	.....	15.8
Milwaukee Mechanics, Milwaukee.....	19,105	11,400	3,734,686	104.4	Niagara, New York.....	38,198	22,210	.....	58.1
Mutual, New York.....	27,002	29,021	1,397,933	109.7					
National, Hartford.....	48,908	51,107							
New Hampshire, Manchester.....	16,538	18,152							

* Losses are losses paid.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
LOUISIANA*—Continued.				
Northern Assurance, London....	\$15,823	\$10,063	.....	63.6
N. British and Mercantile, Lon....	48,643	9,027	.....	18.5
Norwich Union, Norwich.....	33,431	14,985	.....	44.8
Orient, Hartford.....	18,766	9,568	.....	51.1
Palatine, Manchester.....	39,344	5,038	.....	12.8
Pennsylvania, Philadelphia.....	14,905	7,442	.....	49.9
Phoenix, Brooklyn.....	.....	15,680	.....	.....
Phoenix, Hartford.....	63,661	20,773	.....	32.6
Phoenix, London.....	38,645	14,446	.....	37.4
Providence-Washington, Prov.....	29,148	15,438	.....	52.9
Prussian, National, Stettin.....	3,129	.....	.....	.....
Queen, New York.....	50,402	31,078	.....	61.6
Reliance Marine, Liverpool.....	9,457	.....	.....	.....
Royal, Liverpool.....	80,141	43,043	.....	53.7
Scottish Union & Nat'l, Edinburgh.....	52,865	22,139	.....	41.9
Springfield F. and M., Springfield.....	4,004	2,470	.....	61.7
Standard Marine, Liverpool.....	3,482	.....	.....	.....
Thames & Mersey Marine, Liv.....	25,107	3,006	.....	11.9
United States, New York.....	3,406	32	.....	.9
Westchester, New York.....	18,831	9,029	.....	47.9
Western, Toronto.....	59,759	19,739	.....	33.0
Williamsburgh City, Brooklyn.....	1,149	.....	.....	.....
Totals.....	\$1,903,270	\$682,525	.....	35.8
MAINE.				
Ætna, Hartford.....	\$89,483	\$47,355	\$7,222,909	52.9
American, Boston.....	8,301	6,205	630,498	75.8
American, Newark.....	3,148	986	397,850	31.3
American Central, St. Louis.....	9,117	.....	197,645	.....
American, New York.....	3,240	20,911	410,113	229.3
American, Philadelphia.....	6,246	7,946	423,399	127.2
Boston Marine.....	6,993	5,914	853,986	84.5
British America, Toronto.....	10,402	8,365	662,685	8.04
Buffalo German, Buffalo.....	7,251	7,045	579,986	97.1
Caledonian, Edinburgh.....	13,197	24,209	843,233	183.4
Commerce, Albany.....	2,307	2,149	201,825	93.2
Commercial Union, London.....	34,126	25,013	2,047,467	73.2
Connecticut, Hartford.....	35,684	18,058	2,272,200	50.6
Ætna, Hartford.....	.....	.....	.....	.....
Agricultural, Watertown.....	.....	.....	.....	.....
American, Boston.....	.....	.....	.....	.....
American, Baltimore.....	.....	.....	.....	.....
American, Newark.....	.....	.....	.....	.....
American, New York.....	.....	.....	.....	.....
American, Philadelphia.....	.....	.....	.....	.....
American Central, St. Louis.....	.....	.....	.....	.....
Associated Firemen, Baltimore.....	.....	.....	.....	.....
Atlas, London.....	.....	.....	.....	.....
Baltimore, Baltimore.....	.....	.....	.....	.....
Boston Marine, Boston.....	.....	.....	.....	.....
Boyiston, Boston.....	.....	.....	.....	.....
British America, Toronto.....	.....	.....	.....	.....
British & Foreign, Liverpool.....	.....	.....	.....	.....
Ætna, Hartford.....	\$23,866	\$21,914	\$4,211,450	77.0
Agricultural, Watertown.....	14,887	.....	3,635,900	48.1
American, Boston.....	5,221	.....	1,011,312	55.0
American, Baltimore.....	6,230	.....	3,149,755	27.7
American, Newark.....	2,162	.....	998,710	31.9
American, New York.....	20,827	.....	2,331,064	95.0
American, Philadelphia.....	21,943	.....	3,367,370	66.5
American Central, St. Louis.....	3,411	.....	517,109	74.3
Associated Firemen, Baltimore.....	7,725	.....	3,691,458	32.3
Atlas, London.....	11,634	.....	2,026,700	62.4
Baltimore, Baltimore.....	32,681	.....	5,690,524	82.8
Boston Marine, Boston.....	53,816	.....	2,539,253	159.2
Boyiston, Boston.....	4,666	.....	816,904	59.7
British America, Toronto.....	7,535	.....	1,129,166	57.2
British & Foreign, Liverpool.....	2,985	.....	1,399,947	30.7
Ætna, Hartford.....	\$1,115,009	\$1,115,009	\$121,991,918	64.6
American, Boston.....	.....	.....	.....	.....
American, Baltimore.....	.....	.....	.....	.....
American, Newark.....	.....	.....	.....	.....
American, New York.....	.....	.....	.....	.....
American, Philadelphia.....	.....	.....	.....	.....
American Central, St. Louis.....	.....	.....	.....	.....
Associated Firemen, Baltimore.....	.....	.....	.....	.....
Atlas, London.....	.....	.....	.....	.....
Baltimore, Baltimore.....	.....	.....	.....	.....
Boston Marine, Boston.....	.....	.....	.....	.....
Boyiston, Boston.....	.....	.....	.....	.....
British America, Toronto.....	.....	.....	.....	.....
British & Foreign, Liverpool.....	.....	.....	.....	.....
Ætna, Hartford.....	\$13,705	\$3,414	\$1,106,895	24.9
Massachusetts, Boston.....	3,202	1,359	279,525	41.7
Quincy, Quincy.....	20,683	7,488	1,357,706	36.2
Traders and Mechanics, Lowell.....	15,991	9,553	1,014,368	60.3
Totals.....	\$53,639	\$21,914	\$3,758,494	40.8
MARYLAND.†				
Ætna, Hartford.....	\$30,983	\$23,866	\$4,211,450	77.0
Agricultural, Watertown.....	30,966	14,887	3,635,900	48.1
American, Boston.....	9,478	5,221	1,011,312	55.0
American, Baltimore.....	22,494	6,230	3,149,755	27.7
American, Newark.....	6,767	2,162	998,710	31.9
American, New York.....	21,913	20,827	2,331,064	95.0
American, Philadelphia.....	32,981	21,943	3,367,370	66.5
American Central, St. Louis.....	4,589	3,411	517,109	74.3
Associated Firemen, Baltimore.....	23,915	7,725	3,691,458	32.3
Atlas, London.....	18,639	11,634	2,026,700	62.4
Baltimore, Baltimore.....	39,474	32,681	5,690,524	82.8
Boston Marine, Boston.....	33,769	53,816	2,539,253	159.2
Boyiston, Boston.....	7,710	4,666	816,904	59.7
British America, Toronto.....	13,175	7,535	1,129,166	57.2
British & Foreign, Liverpool.....	9,719	2,985	1,399,947	30.7

Continental, New York.....	16,511	4,239	1,309,174	25.6	Broadway, New York.....	5,177	1,852	444,500	35.7
Equitable F. and M., Providence.....	3,005	1,048	303,800	45.7	Columbian, Edinburgh.....	9,751	8,750	1,033,538	89.7
Fire Association, Philadelphia.....	35,080	27,816	2,950,531	79.2	Caledonian, Louisville.....	11,599	5,041	777,990	43.4
Firemans Fund, San Francisco.....	15,968	7,813	1,099,354	51.0	Commerce, Albany.....	2,637	675	395,415	25.6
First National, Worcester.....	13,194	5,774	886,194	43.2	Commercial Union, London.....	26,452	35,704	2,811,366	134.9
Franklin, Philadelphia.....	6,994	3,395	563,120	47.5	Connecticut, Hartford.....	11,083	8,182	1,304,800	73.8
German-American, New York.....	24,050	10,390	2,142,491	43.2	Continental, New York.....	42,901	27,334	5,872,240	33.6
Germania, New York.....	67,080	4,566	515,938	68.0	Equitable F. and M., Providence.....	9,945	3,579	933,777	60.0
Girard F. and M., Philadelphia.....	2,691	2,006	200,865	74.5	Fire Association, Philadelphia.....	33,682	41,286	3,202,191	122.5
Granite State, Portsmouth.....	91,572	35,096	7,263,632	38.3	Firemens, Baltimore.....	36,139	26,120	6,997,010	72.3
Greenwich, New York.....	4,558	6,502	375,556	122.6	Firemans Fund, San Francisco.....	9,412	8,222	1,104,122	87.3
Guardian, London.....	35,731	27,028	2,418,480	73.5	Franklin, Philadelphia.....	7,593	4,891	808,734	65.0
Hanover, New York.....	23,711	21,140	1,433,995	89.1	General, Dresden.....	14,333	40	4,804,745	3
Hamburg-Bremen, Hamburg.....	10,619	4,541	514,540	45.3	Germania, New York.....	28,193	17,462	4,886,895	61.9
Hartford, Hartford.....	42,613	21,008	4,193,317	49.3	German-American, Baltimore.....	34,738	17,736	5,057,700	51.1
Home, New York.....	86,022	39,511	6,975,194	54.5	German, Baltimore.....	186,522	80,125	20,624,769	73.3
Ins. Co. of North America, Phila.....	63,590	34,627	4,137,150	54.5	German-American, New York.....	31,289	24,562	4,164,705	68.5
Ins. Co. of State of Pa., Phila.....	22,027	8,596	1,237,219	39.0	Girard F. and M., Philadelphia.....	6,683	5,710	973,344	85.4
Imperial, London.....	26,974	19,753	1,783,570	73.2	Glens Falls, Glens Falls.....	10,835	5,604	1,349,412	51.7
Lancashire, Manchester.....	19,393	36,916	1,253,393	190.7	Guardian F. and L., London.....	8,209	4,640	916,871	56.5
Lion, London.....	1,155	1,590	183,156	70.5	Hamburg-Bremen, Hamburg.....	11,886	20,764	1,138,425	174.6
Liv. and London and Globe, Liv.....	55,459	36,173	3,626,859	65.2	Hanover, New York.....	15,048	8,216	1,555,649	54.6
London and Lancashire, Liv.....	13,020	9,756	868,013	74.9	Hartford, Hartford.....	27,218	18,437	2,615,797	67.7
London Assurance.....	9,023	5,326	669,775	58.9	Home, Baltimore.....	35,169	21,728	4,130,846	61.7
Manchester.....	16,740	10,603	587,010	98.6	Home, New York.....	44,744	44,282	5,439,904	106.1
Manufacturers and Builders, N. Y.....	2,093	237	129,723	11.2	Howard, Baltimore.....	26,809	15,490	4,173,018	57.8
Merchants, Bangor.....	111,689	80,993	13,093,049	71.9	Imperial, London.....	18,704	14,743	1,709,993	78.8
Mercantile F. & M., Boston.....	11,025	9,715	1,032,550	88.1	Indemnity, London.....	3,577	271	2,347,041	7.5
Merchants, Newark.....	10,026	8,020	776,430	80.0	Lancashire, Manchester.....	17,876	19,251	1,851,124	107.7
Merchants, Providence.....	4,065	3,773	350,915	92.8	Ins. Co. of North America, Phila.....	73,457	47,188	13,703,804	64.2
National, Hartford.....	33,891	17,464	2,574,752	51.5	Ins. Co. of the State of Pa., Phila.....	8,983	8,983	869,123	118.8
New Hampshire, Manchester.....	23,367	13,118	1,621,957	56.1	Lion, London.....	8,605	7,491	834,053	87.0
Niagara, New York.....	20,284	12,144	1,266,146	59.8	Liv. & London & Globe, Liv.....	59,068	51,343	6,624,827	86.9
Northern, London.....	29,602	25,777	1,861,364	87.1	London Assurance, London.....	19,324	19,763	5,869,779	102.2
North British and Mercantile, Lon.....	34,256	26,355	2,318,518	76.9	London & Lancashire, Liverpool.....	25,723	23,068	3,108,761	89.6
Northwestern Nat'l, Milwaukee.....	876	40	103,600	4.5	Manchester, Manchester.....	16,579	11,557	1,964,995	69.7
Norwich Union.....	22,703	12,097	810,390	53.3	Mannheim.....	4,535	16	1,267,874	7
Orient, Hartford.....	53,810	18,322	3,965,533	34.0	Maryland, Baltimore.....	18,179	11,047	2,520,341	60.7
Pacific, New York.....	1,732	649	132,135	37.4	Mercantile F. and M., Boston.....	2,136	1,262	313,086	59.1
Palatine, Manchester.....	2,998	136	239,761	4.5	Merchants, Newark.....	15,134	16,694	1,732,589	110.3
Pennsylvania, Philadelphia.....	41,201	30,688	2,357,280	74.5	Merchants, Providence.....	8,411	5,745	892,200	68.3
Phoenix, Brooklyn.....	31,641	14,190	2,106,990	44.8	National, Baltimore.....	13,328	5,248	2,174,263	39.3
Phoenix, Hartford.....	54,655	33,538	3,682,391	61.3	National, Hartford.....	12,600	2,945	1,421,120	29.3
Phoenix, London.....	2,091	95,236	95,236	52.7	New Hampshire, Manchester.....	10,162	3,954	1,462,651	38.9
Providence-Washington, Prov.....	10,269	3,618	1,045,795	35.2	New York Bowery, New York.....	14,573	10,922	1,683,777	70.9
Queen of America, New York.....	15,497	7,420	1,016,451	47.9	Niagara, New York.....	9,151	1,871,225	1,871,225	77.9
Reliance, Philadelphia.....	2,470	2,589	329,022	104.8	Northern, London.....	15,835	11,399	2,103,166	72.0
Rochester German, Rochester.....	2,345	1,073	161,352	45.7	Northwestern National, Milwaukee.....	2,452	6,049	460,320	246.6

* Losses are losses paid.

† Third column of figures are amounts at risk in Maryland. ‡ Marine.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
MARYLAND—Continued.†				
No. British & Mercantile, London	\$22,831	\$6,367	\$2,927,844	27.9
Norwich Union, Norwich	43,988	35,188	4,668,373	80.0
Old Town, Baltimore	10,485	3,167	2,057,213	30.2
Orient, Hartford	13,212	15,301	1,478,399	115.8
Pacific, New York	7,702	8,662	968,530	112.4
Palatine, Manchester	17,976	11,984	2,107,637	66.6
Peabody, Baltimore	26,057	16,467	4,088,700	59.3
Pennsylvania, Philadelphia	36,787	36,459	4,046,661	99.1
Phoenix, Brooklyn	38,814	25,461	4,904,993	65.6
Phoenix, Hartford	20,123	16,706	2,553,523	57.3
Providence-Washington, Prov.	20,502	6,067	2,244,708	29.6
Prussian National, Stettin	6,752	3,423	606,412	50.7
Queen, New York	14,200	15,895	1,767,422	111.8
Reliance, Liverpool	10,056	12,893	2,124,149	128.1
Royal, Liverpool	76,185	72,896	11,091,719	93.2
Scottish Union & Nat'l, Edinburgh	22,707	18,618	2,244,780	82.0
Spring Garden, Philadelphia	5,941	3,662	767,185	61.6
Springfield F. and M., Springfield	15,258	13,614	1,583,736	89.2
St. Paul F. and M., St. Paul	11,528	16,314	1,276,569	141.4
Sun, London	36,233	23,147	4,436,290	63.9
Thames & Mersey	4,826	186	1,537,427	3.7
Union, Liverpool	24,476	.....	3,845,825	.....
Union, London	4,523	10,007	453,421	221.1
Union, Philadelphia	6,222	2,204	707,616	36.9
United Firemen, Philadelphia	6,794	5,597	614,713	82.4
Weastecher, New York	14,403	3,633	2,100,580	25.2
Western Assurance, Toronto	44,852	28,636	3,714,547	63.8
Williamsburgh City, Brooklyn	4,658	3,670	464,302	78.6
Totals	\$1,832,924	\$1,239,017	\$235,910,024	67.6
Massachusetts Companies.				
Baltimore Equitable Society, Balt.	\$31,086	\$28,588	\$2,274,978	92.0
China Mutual, Boston	15,533	18,112	1,704,959	116.6
Farmers, York	16,287	13,887	1,621,719	85.2
Kent County, Dover, Del.	6,477	5,012	1,427,216	77.4
Mutual, Baltimore	4,282	4,953	368,468	115.6
Mutual, New York	16,047	28,938	1,176,337	180.3
Totals	\$89,712	\$99,489	\$6,593,707	110.9
MASSACHUSETTS—Continued.				
Hanover, New York	\$79,608	\$64,286	\$6,562,520	80.7
Hartford Fire	119,377	91,863	12,476,323	76.9
Home, New York	331,933	328,863	51,429,403	70.1
Ins. Co. of North America, Phila.	365,403	348,470	44,552,673	80.8
Imperial, London	140,077	169,155	5,204,899	120.7
Ins. Co. of the State of Pa., Phila.	41,102	15,710	3,264,999	38.2
Lacashire, Manchester	87,719	98,180	8,544,993	111.9
Lib. & Lon.	24,286	25,893	2,345,716	106.6
Liv. & London	357,689	267,481	35,867,844	74.8
London Assurance, London	64,261	53,875	6,090,245	93.4
London Assur. (Marine), London	12,743	1,713	4,355,793	13.4
London & Lancashire, Liverpool	100,851	100,851	7,059,010	129.7
Lunbermens, Philadelphia	11,835	9,363	1,196,644	79.1
Manchester Assur., Manchester	130,670	88,362	9,189,412	67.6
Manheim, Mannheim	20,282	11,176	4,308,610	55.1
Marine, London	45,459	10,518	29,301,597	23.1
Mechanics, Philadelphia	16,586	20,344	1,642,628	122.6
Mercantile F. and M., Boston	54,097	44,775	6,433,261	82.7
Merchants, Newark	81,051	67,970	9,301,844	83.0
Merchants, Providence	42,069	42,975	4,423,345	102.1
Michigan F. and M., Detroit	19,694	43,876	1,530,865	223.4
Milwaukee Mechanics, Milwaukee	2,919	13,631	313,005	462.2
National, Hartford	152,124	106,416	14,557,999	69.9
Newark, Newark	19,080	25,099	1,495,671	131.5
New Hampshire, Manchester	178,900	134,827	17,360,600	75.3
New York, New York	3,792	17,333	869,250	457.0
Niagara, New York	119,683	126,861	9,265,406	111.6
North American, Boston	103,935	64,293	11,246,117	58.5
N. British & Mercantile, London	116,401	157,995	11,517,734	135.6
Northern Assurance, London	117,026	116,397	10,954,545	99.4
Norwich Union, Norwich	107,447	128,856	8,281,024	119.9
Northwestern National, Milwaukee	12,460	18,197	1,292,757	145.6
Orient, Hartford	69,069	93,191	6,788,666	134.9
Palatine, Manchester	29,996	31,228	3,311,852	104.1
Pennsylvania, Philadelphia	123,587	117,990	10,816,645	95.4
Phoenix, Brooklyn	135,684	135,500	9,762,248	99.8
Phoenix Assurance, London	179,835	129,823	17,568,367	72.2
Phoenix, Hartford	105,536	108,048	8,752,264	102.3
Totals	134,393	109,996	11,515,216	81.9

MASSACHUSETTS.									
Anda, Hartford	\$226,160	\$175,940	\$3,968,000	77.8	Providence-Washington, Prov...	130,977	157,342	14,908,771	120.7
Agricultural, Watertown	51,166	23,600	5,856,600	46.1	Prussian National	15,866	20,471	1,273,555	128.7
Albany, Albany	21,601	21,601	1,835,266	99.1	Queen of America, New York	123,006	91,124	16,299,671	73.5
American, Boston	85,070	71,828	8,248,209	84.4	Reading, Reading	38,664	27,193	3,424,940	74.2
American, Newark	26,777	25,249	2,978,245	94.3	Reliance Marine, Liverpool	12,796	20,278	1,266,854	37.0
American, New York	121,337	103,197	9,559,430	85.0	Reliance, Philadelphia	29,268	20,278	3,131,931	69.3
American, Philadelphia	95,872	95,832	8,066,288	100.2	Rochester German, Rochester	49,010	46,131	3,574,637	94.1
American Central, St. Louis	3,628	3,628	5,139,235	85.2	Royal, Liverpool	419,835	375,429	34,575,001	89.4
Atlas, London	55,882	47,669	3,939,235	85.2	Royal Exchange	3,359	574	456,400	17.1
Boston Marine, Boston	670,539	770,397	36,947,925	114.9	Rutgers, New York	10,769	12,465	899,162	115.8
Boyington, Boston	120,885	79,702	26,490,080	66.0	Scott, Union & Natl, Edinburgh	70,666	88,124	7,612,646	114.9
British America, Toronto	33,124	21,905	26,490,080	66.0	Security, New Haven	20,231	20,231	2,311,979	152.6
Brit. & Foreign Marine, Liver	246,889	7,786	56,258,014	3.1	Spring Garden, Philadelphia	54,701	48,517	6,252,859	88.6
Buffalo German, Buffalo	25,403	27,346	2,498,221	107.6	Springfield F. & M., Springfield	162,098	108,691	14,539,830	122.5
Caledonian, Edinburgh	62,791	75,502	4,454,400	120.2	St. Paul F. and M., St. Paul	79,878	80,651	5,485,184	100.9
Capital, Concord	18,136	45,483	3,998,762	66.7	Sun, London	166,134	149,576	17,955,350	90.0
Citizens, New York	31,134	24,327	2,455,679	78.1	Teutonia, Philadelphia	2,452	3,398	295,103	128.6
Citizens, St. Louis	5,893	5,659	414,655	96.0	Thames and Mersey Marine	21,652	2,447	4,586,275	11.3
Columbian, Louisville	14,495	38,705	4,719,723	135.3	Union Marine, Liverpool	30,080	2,021	3,315,790	6.7
Commerce, Albany	19,659	26,603	1,602,939	104.3	Union Society	14,448	9,096	1,524,145	62.9
Commercial Union, London	136,411	173,445	10,392,150	108.8	United, Philadelphia	30,791	27,022	4,311,549	87.6
Commonwealth, New York	20,292	61,608	2,628,424	90.3	United Firemans, Philadelphia	20,573	33,338	1,268,047	87.8
Concordia, Milwaukee	9,547	12,452	4,645,806	18.9	United States, New York	31,143	37,907	3,699,974	121.7
Connecticut, Hartford	6,364	4,601	591,685	71.9	Wellfleet, Wellfleet	30,117	30,100	562,555	98.7
Continental, New York	119,768	124,907	10,199,800	104.3	Westchester, New York	79,588	65,166	6,974,821	81.9
Delaware, Philadelphia	133,495	120,164	11,480,523	89.9	Western Assurance, Toronto	75,295	81,610	5,006,128	108.4
Detroit F. and M., Detroit	9,547	12,452	4,645,806	18.9	Williamsburg, Williamsburg	91,534	30,165	8,848,045	67.3
Dwelling House, Boston	29,393	32,398	3,676,761	84.2	Totals	\$9,172,804	\$8,318,218	\$928,120,057	90.7
Equitable F. and M., Providence	31,867	31,005	566,920	97.2	Mutual Companies	\$44,314	\$99,831	\$3,131,211	67.3
Equitable (Marine), Provincetown	3,706	3,933	272,418	106.1	Abington, Abington	337,735	65,586	41,903,693	19.4
Farragut, New York	124,993	156,223	9,527,995	124.9	Amisquam, Boston	138	5	30,006	...
Fire Association, Philadelphia	12,314	21,339	810,431	173.3	Atlas, Ashfield	77,976	72,227	6,075,498	92.6
Fire Ins. Co. of Co. of Phila., Phila.	76,233	63,621	6,482,357	83.4	Atlantic Mutual (Mar.), New York	122,948	73,769	20,607,169	60.0
Firemans Fund, San Francisco	8,101	9,594	625,184	117.3	Attleborough, Attleborough	2,257	6,797	452,235	301.1
Firemans, Baltimore	3	3	3	3	Barnstable County, Barnstable	31,053	6,812	1,747,760	21.9
Firemans, Newark	36,881	43,118	3,855,487	116.9	Bay State, Pittsfield	7,755	1,482	500,141	19.1
Firemans, Boston	72,889	48,137	7,878,603	66.0	Berkshire, Pittsfield	27,991	6,705	2,083,314	23.9
First National, Worcester	54,159	68,654	4,960,493	126.7	Boston Manufacturers, Boston	384,294	73,462	47,284,684	19.1
Franklin, Philadelphia	27,911	31,468	2,556,571	112.7	Bristol County, New Bedford	2,233	2,327	362,650	97.2
German-American, New York	133,151	87,812	14,760,126	65.9	Cambridge, Cambridgeport	66,875	34,722	4,349,672	46.9
Germania, New York	28,385	16,452	2,866,127	57.9	China	230,150	182,423	15,404,051	79.2
Girard F. and M., Philadelphia	20,980	25,063	1,997,782	119.4	Citizens, Boston	94,971	18,917	7,091,230	20.3
Glens Falls, Glens Falls	31,965	25,092	3,795,487	78.5	Cobasset, Cobasset	1,102	177	72,900	16.0
Granite State, Portsmouth	106,230	67,521	8,075,667	113.8					
Greenwich, New York	36,610	87,972	7,847,887	99.0					
Guardian Assurance, London	88,805	35,379	4,358,658	...					
Hamburg-Bremen, Hamburg	...	...	...	...	

† Third column of figures are amounts at risk in Maryland.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
MASSACHUSETTS—Continued.				
Commonwealth.....	\$17,352	.....	\$1,221,851	.....
Cotton and Woolen, Boston.....	54,780	\$20,206	5,800,111	38.3
Dedham, Dedham.....	11,224	8,302	1,553,983	59.1
Dorchester, Boston.....	136,515	73,302	9,023,753	53.7
Essex, Salem.....	24,072	17,153	1,540,197	71.2
Fall River Mfrs., Fall River.....	120,591	13,141	14,084,200	10.9
Fitchburg, Fitchburg.....	123,274	89,736	7,849,341	72.7
Franklin, Greenfield.....	14,509	13,958	1,094,851	96.2
Groveland, Groveland.....	71	.....	3,024,092	.....
Hampshire, Northampton.....	13,584	6,399	950,291	47.1
Hingham, Hingham.....	86,496	23,675	5,868,099	27.3
Holyoke, Salem.....	131,945	52,604	8,816,714	39.8
Industrial, Boston.....	16,465	6,409	1,054,621	38.9
Lowell, Lowell.....	24,848	11,093	1,620,584	44.5
Lynn, Lynn.....	5,211	1,061	385,450	26.3
Massachusetts, Boston.....	53,891	16,002	7,721,540	29.7
Merchants & Farmers, Worcester	82,256	60,106	5,535,920	73.0
Merrimack, Andover.....	108,305	49,405	7,323,003	45.6
Middlesex, Concord.....	146,361	51,493	9,863,936	35.1
Milford, Milford.....	6,298	2,518	652,810	40.0
Mutual, New York.....	12,404	13,506	822,863	108.8
Mutual Fire Assurance, Springfield	44,570	114,835	3,770,410	257.6
Mutual Protection, Boston.....	17,877	2,339	1,116,700	13.1
Newburyport, Newburyport.....	4,468	2,537	351,776	56.7
Norfolk, Dedham.....	2,025	28	152,725	1.4
Paper Mill, Boston.....	68,036	20,890	5,024,537	30.6
Patrons.....	25,477	253	2,071,691	1.0
Quincy, Quincy.....	1,761	5,821	159,694	330.5
Rubber Manufacturers, Boston.....	19,203	33,615	8,243,925	28.2
Salem, Salem.....	25,627	16,559	2,734,379	64.6
Salisbury & Amesbury, Amesbury	15,896	13,370	1,090,368	84.1
Saugus, Saugus.....	253	124	30,714	49.0
South Danvers, Peabody.....	.....	1,318	949,335	.....
Traders and Mechanics, Lowell.....	3,894	813	177,595	20.8
United States Lloyds, New York	137,907	72,602	39,001,370	52.6
Wachusett, Fitchburg.....	23,367	59,972	6,321,815	226.7
Wesford.....	38,483	36,760	2,338,891	95.4
West Newbury.....	594	153	68,950	25.7
.....	.....	7,394	292,266	.....

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
MICHIGAN—Continued.				
Grand Rapids, Grand Rapids.....	\$72,545	\$58,132	\$6,110,513	80.1
Granite State, Portsmouth.....	25,652	10,073	1,571,922	39.2
Greenwich, New York.....	34,730	30,861	2,044,923	94.4
Guardian, London.....	19,056	28,668	1,406,619	150.3
Hamburg-Bremen, Hamburg.....	38,840	38,397	2,235,229	98.8
Hanover, New York.....	48,068	43,028	3,091,481	89.5
Hartford, Hartford.....	116,257	67,608	8,700,276	58.1
Hempstead, New York.....	126,891	87,720	10,877,202	69.1
Imperial, London.....	41,327	50,059	2,089,202	121.1
Ins. Co. of North America, Phila.	109,958	95,079	6,753,125	86.4
Lancashire, Manchester.....	81,698	53,891	4,230,318	65.9
Lion, London.....	12,720	17,667	1,200,755	138.8
Liv. and London and Globe, Liv.	138,009	72,947	1,200,755	52.8
London Assurance, London.....	53,809	31,572	2,695,701	58.6
London and Lancashire, Liverpool	74,637	62,651	3,696,395	83.9
Manchester, Manchester.....	91,202	74,900	5,320,773	82.1
Mannheim, Mannheim.....	31	12	13,077	38.7
Marine, London.....	11,703	4,728	1,108,560	40.4
Mechanics, Philadelphia.....	7,165	11,972	422,581	167.0
Mercantile F. and M., Boston.....	15,223	11,719	1,203,857	77.0
Merchants, Newark.....	11,241	8,442	949,386	75.1
Merchants, Providence.....	23,017	23,704	1,761,225	103.0
Michigan F. and M., Detroit.....	9,264	6,534	621,461	70.5
Milwaukee Mechanics, Milwaukee	156,154	145,412	9,286,812	93.1
Mutual, New York.....	67,382	40,646	4,855,419	60.2
National, Hartford.....	23,680	26,002	1,415,045	100.8
Newark, Newark.....	70,370	59,540	4,714,549	86.1
New Hampshire, Manchester.....	6,933	6,663	474,249	96.1
New York, New York.....	28,201	15,810	2,532,955	56.0
Niagara, New York.....	1,624	224,900	224,900	.....
Northern, London.....	100,990	58,586	5,206,106	58.0
Northwestern Nat'l, Milwaukee.	96,478	28,941	5,576,260	92.2
Norwich Union, Norwich.....	48,786	28,501	2,358,588	58.4
Orient, Hartford.....	35,548	16,056	3,453,655	45.1
Pacific, New York.....	56,829	44,644	2,990,311	78.5
Palatine, Manchester.....	56,426	47,512	4,073,866	84.2
Pennsylvania, Philadelphia.....	14,709	7,187	1,257,633	48.8
.....	37,080	16,754	2,947,341	45.1
.....	39,668	35,463	2,293,045	89.3

Worcester Mfrs., Worcester.....	124,234	38,367	15,051,577	30.8	Phenix, Brooklyn.....	105,300	73,043	6,969,100	69.3
Worcester Mutual, Worcester.....	140,940	42,263	10,180,065	29.9	Phenix, Hartford.....	108,360	58,281	8,909,070	53.7
Totals.....	\$3,434,401	\$1,573,194	\$345,068,135	45.8	Phenix, London.....	74,870	41,745	3,344,348	55.7
MICHIGAN.					Protection, Chicago.....	3,180	87	449,265	2.7
Elina, Hartford.....	\$66,869	\$50,985	\$6,271,700	52.6	Prussian National, Stetin.....	11,169	10,988	824,934	98.4
Agricultural, Watertown.....	17,545	16,011	1,763,300	91.2	Queen of America, New York.....	66,138	40,553	3,251,999	61.3
American, Newark.....	16,618	9,953	1,567,001	59.9	Reading, Reading.....	12,940	13,767	1,052,433	106.4
American Central, St. Louis.....	17,417	6,170	1,106,476	35.4	Reliance, Philadelphia.....	6,204	3,690	1,506,182	164.9
American, Philadelphia.....	83,273	68,223	5,409,874	81.9	Rochester German, Rochester.....	33,695	21,505	2,099,551	58.0
Atlas, London.....	10,900	19,628	1,075,810	65.2	Rockford, Rockford.....	76,419	42,331	6,793,560	55.4
Bayston, Boston.....	16,735	19,638	1,077,518	65.2	Royal, Liverpool.....	82,801	54,117	5,706,647	65.3
British America, Toronto.....	28,285	34,672	2,521,129	73.8	Rutgers, New York.....	5,004	1,097	370,243	21.5
British and Foreign Marine, Liv.	45,714	8,102	755,560	48.4	Saginaw Valley F. & M., Saginaw	20,812	7,516	748,341	36.1
Broadway, New York.....	16,715	1,814	518,668	34.3	Scottish Union and Nat'l, Edin'gh	30,452	24,786	2,690,133	81.4
Buffalo German, New York.....	5,992	1,814	518,668	34.3	Sea, Liverpool.....	1,721	.....	75,100	.....
Caledonian, Edinburgh.....	24,990	10,821	2,233,011	43.3	Security, Cincinnati.....	2,721	6,627	934,989	55.3
Capital, Concord.....	47,090	26,983	2,371,630	57.3	Security, New Haven.....	25,005	15,693	2,210,150	62.5
Capital, New York.....	4,648	2,920	246,942	62.8	Springfield F. and M., Springfield	61,042	39,855	3,446,669	65.3
Citizens, Pittsburgh.....	24,034	21,514	1,545,740	89.5	Spring Garden, Philadelphia.....	7,788	6,702	845,616	86.0
Citizens, Pittsburgh.....	19,993	20,370	1,343,964	105.0	St. Paul F. and M. St. Paul.....	40,394	33,881	2,678,814	83.9
Columbia, Louisville.....	22,918	20,315	.....	88.6	Standard Marine, Liverpool.....	14,171	9,266	595,737	64.9
Commerce, Albany.....	7,174	4,922	541,797	68.6	Sun, London.....	114,677	84,891	7,994,375	74.0
Commercial Union, London.....	119,355	90,705	7,338,670	76.0	Teutonia, Philadelphia.....	3,075	1,935	268,290	33.6
Commonwealth, New York.....	2,214	4,600	203,500	207.7	Teutonia F. and M., Dayton.....	10,011	6,678	817,050	66.7
Concordia, Milwaukee.....	43,950	20,688	3,521,236	47.0	Traders, Chicago.....	62,015	47,538	3,192,674	76.6
Connecticut, Hartford.....	88,223	56,179	5,866,237	63.7	Transatlantic, Hamburg.....	14,099	10,694	1,116,270	75.8
Continental, New York.....	60,039	48,874	3,538,179	81.3	Union, London.....	4,803	225	236,240	4.7
Cooper, Dayton.....	28,843	6,418	1,056,332	22.2	Union Marine, Liverpool.....	21,396	21,396	3,457,701	150.5
Delaware, Philadelphia.....	7,344	6,118	1,056,332	22.2	Union, Philadelphia.....	15,299	19,944	1,180,823	130.3
Detroit F. and M., Detroit.....	10,918	855,597	855,597	67.2	Union, Buffalo.....	2,642	2,073	193,004	78.4
Dwelling House, Boston.....	122,121	98,083	11,791,002	80.3	United Firemen, Philadelphia.....	4,700	4,582	322,735	97.4
Eagle, New York.....	11,233	11,233	1,576,738	78.3	United States, New York.....	12,724	5,760	1,183,180	45.3
Equitable F. and M., Providence	6,298	2,838	707,374	29.5	Western, Pittsburgh.....	5,179	1,956	422,595	37.7
Eureka F. and M., Cincinnati.....	9,805	6,532	621,462	70.5	Western, Toronto.....	90,308	66,510	4,798,695	73.6
Farmers, New York.....	11,976	934,939	934,939	55.3	Westchester, New York.....	65,519	51,624	4,602,899	78.8
Farragut, New York.....	19,202	21,705	1,085,133	84.8	Williamsburgh City, Brooklyn.....	16,661	12,865	1,715,800	77.2
Farmers, Newark.....	2,995	1,726	278,100	57.6	Totals.....	\$4,683,814	\$3,379,767	\$313,641,940	72.1
Firemans Fund, San Francisco.....	8,208	7,499	847,531	81.3	MINNESOTA.				
Fire Association, Philadelphia.....	55,300	45,790	4,091,231	61.8	Elina, Hartford.....	\$111,499	\$99,305	\$7,797,730	89.1
Fire Ins. Co. of Co. of Phila., Phila	83,053	64,660	3,652,541	77.8	Agricultural, Watertown.....	21,115	8,002	1,516,200	37.9
Franklin, Philadelphia.....	4,572	1,825	287,737	39.9	Albany, Albany.....	11,903	13,851	726,889	116.4
German, Freeport.....	19,705	19,705	1,532,340	84.4	Allemania, Pittsburgh.....	9,508	30,156	995,652	317.1
German-American, New York.....	69,678	38,640	4,799,974	55.4	American Central, St. Louis.....	21,970	18,140	1,145,917	82.6
German, Pittsburgh.....	73,820	44,691	5,186,597	60.5	American, Boston.....	8,945	5,208	758,904	58.2
Germania, New York.....	4,755	4,016	397,234	84.4	American, Newark.....	14,000	9,592	1,207,725	68.5
Girard F. and M., Philadelphia.....	49,354	38,859	4,274,522	78.7	American, New York.....	49,074	36,554	2,960,490	74.5
Glens Falls, Glens Falls.....	21,551	17,395	1,994,522	80.7					
	11,442	12,435	1,211,103	108.6					

* This company charges no cash premium.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
<i>MINNESOTA—Continued.</i>				
American, Philadelphia.....	\$47,254	\$48,867	\$3,390,815	103.4
Armenia, Philadelphia.....	7,287	1,399	560,081	19.2
Atlas, London.....	26,983	18,326	1,736,390	67.9
Boylston, Boston.....	11,652	10,965	650,384	94.1
British America, Toronto.....	36,379	25,964	2,360,374	71.3
British and Foreign Marine, Liv.....	5,057	483	2,162,580	9.3
Broadway, New York.....	9,628	7,299	1,005,578	75.8
Buffalo German, Buffalo.....	25,715	15,449	2,101,698	60.0
Caledonian, Edinburgh.....	30,374	30,808	1,600,599	101.4
Capital, Concord.....	14,473	10,767	643,263	74.4
Citizens, New York.....	21,586	19,380	1,201,285	80.8
Citizens St. Louis.....	9,282	9,106	486,955	98.1
Columbian, Louisville.....	14,062	22,011	1,103,769	156.5
Commerce, Albany.....	6,220	5,890	564,025	93.7
Commercial Union, London.....	90,411	70,981	13,263,285	78.5
Commonwealth, New York.....	5,323	2,222	301,200	41.7
Concordia, Milwaukee.....	24,576	22,946	1,684,156	93.3
Connecticut, Hartford.....	50,510	42,444	4,041,118	84.0
Continental, New York.....	133,911	87,071	11,995,365	65.0
Delaware, Philadelphia.....	9,198	8,943	595,138	97.2
Detroit F. and M., Detroit.....	15,574	15,621	1,319,675	100.3
Eagle, New York.....	12,431	7,927	1,217,328	63.7
Equitable F. and M., Providence.....	6,704	8,068	549,080	133.7
Farmers, York.....	13,140	11,499	773,987	87.0
Farragut, New York.....	10,089	549,755	1,198,466	118.2
Firemen, Newark.....	12,027	11,231	1,198,466	93.3
Firemen, Chicago.....	8,092	5,777	597,340	71.9
Firemans, Baltimore.....	9,127	3,966	560,686	43.0
Fire Association, Philadelphia.....	59,226	60,338	2,080,487	101.8
Firemans Fund, San Francisco.....	34,683	29,899	2,577,115	85.5
Franklin, Philadelphia.....	13,395	14,868	994,600	110.5
General Marine, Germany.....	306	35	61,570	11.4
German-American, New York.....	76,264	79,814	4,910,393	104.6
German-American, New York.....	33,892	40,970	2,261,958	120.9
German, Freeport.....	59,730	43,973	3,011,375	86.6
Girard F. and M., Philadelphia.....	16,102	10,697	1,449,560	66.4
Glens Falls, Glens Falls.....	14,977	15,247	1,495,531	101.8
Granite State, Portsmouth.....	16,757	11,576	960,462	69.1
Grand Rapids, Grand Rapids.....	13,582	7,082	934,399	52.1
NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
<i>MINNESOTA—Continued.</i>				
Rochester German, Rochester.....	\$22,383	\$22,383	\$1,195,932	113.9
Rockford, Rockford.....	28,180	28,180	2,684,474	69.1
Royal, Liverpool.....	32,172	32,172	3,322,685	52.9
Ruigers, New York.....	14,359	14,359	532,167	143.0
St. Paul F. and M., St. Paul.....	217,590	194,314	26,396,124	89.3
Scottish Union and Nat., Edinb g.....	57,370	54,444	5,205,430	94.9
Sea, Liverpool.....	417	417	1,287,357	6.9
Security, New Haven.....	17,416	11,654	1,453,699	66.9
Springfield F. and M., Springfield.....	48,764	48,764	3,431,361	74.8
Spring Garden, Philadelphia.....	18,223	12,165	1,667,288	66.7
Standard Marine, Liverpool.....	2,438	1,961	680,429	51.7
State, Des Moines.....	46,261	46,261	2,547,793	103.1
Sun, London.....	71,852	115,498	5,460,225	160.7
Teutonia, Philadelphia.....	1,424	2,512	100,837	176.3
Traders, Chicago.....	23,231	12,200	1,099,424	52.9
Transatlantic, Hamburg.....	15,020	11,302	1,167,216	75.2
Union Assurance Society, London.....	10,890	42,224	519,015	38.9
Union Marine, Liverpool.....	42,288	10,177	12,493,668	24.0
Union, Philadelphia.....	10,714	12,698	954,367	118.9
United Firemen, Philadelphia.....	10,922	16,812	600,521	153.9
United States, New York.....	13,952	11,497	1,096,390	82.3
Westchester, New York.....	20,765	19,848	1,666,690	95.5
Western, Pittsburgh.....	6,311	8,091	429,963	128.0
Western, Toronto.....	92,491	42,212	5,437,253	45.6
Williamsburg City, Brooklyn.....	15,372	8,112	1,191,945	52.7
Totals.....	\$4,028,971	\$3,392,236	\$310,389,745	84.2
<i>Mutual Companies.</i>				
Central Manufacturers, Van Wert.....	\$11,162	\$1,690	\$576,034	15.1
Mfrs. and Merchants, Rockford.....	12,794	5,331	560,544	41.6
Michigan Millers, Lansing.....	6,595	5,971	204,622	91.5
Millers and Mfrs., Minneapolis.....	38,090	15,414	644,380	40.5
Millers National, Chicago.....	9,623	17,512	541,216	182.0
Protection, Chicago.....	4,613	181	325,020	3.9
Totals.....	\$82,747	\$46,009	\$2,851,216	55.7

Greenwich, New York.....	15,397	25,471	1,607,780	166.4	Mississippi.	\$36,846	\$31,190	\$1,866,257	84.6
Guardian, London.....	16,255	17,072	913,486	105.0	Albina, Hartford.....	26,079	11,358	1,686,778	43.5
Hamburg-Bremen, Hamburg.....	27,150	24,795	1,578,660	91.2	American, Philadelphia.....	7,489	2,858	351,266	38.1
Hanover, New York.....	43,161	38,761	2,582,570	89.8	Atlanta Home, Atlanta.....	11,764	2,166	577,958	18.4
Hartford, Hartford.....	135,777	110,587	8,162,935	89.1	British America, Toronto.....	9,140	3,158	435,186	34.5
Home, New York.....	138,801	141,517	13,773,183	89.1	Caledonian, Edinburgh.....	5,844	2,089	368,892	35.8
Imperial, London.....	128,745	16,949	1,207,513	74.5	Citizens, New York.....	22,952	2,434	393,978	28.8
Ins. Co. of N. America, Phila.....	111,582	70,239	9,467,053	104.2	Delaware, Philadelphia.....	22,952	2,434	393,978	28.8
Ins. Co. of State of Pa., Philadel.....	10,462	10,904	837,314	62.9	Georgia Home, Columbus.....	12,293	10,246	937,181	35.3
Lancashire, Manchester.....	47,148	42,264	3,052,972	89.6	Greenwich, New York.....	11,648	4,179	613,783	83.8
Lion, London.....	26,442	27,117	2,438,150	102.5	Hanover, New York.....	34,300	26,984	1,812,442	78.6
Live and London and Globe, Liv.....	104,109	78,641	6,130,598	75.4	Hartford, Hartford.....	56,339	37,456	4,146,746	66.5
London Assurance, London.....	38,185	29,000	4,951,609	75.4	Home, New York.....	33,801	25,913	1,299,828	38.0
London and Lancashire, Liv.....	40,603	65,632	1,957,961	101.7	Lancashire, Manchester.....	10,400	7,392	2,272,517	76.6
Lumbermans, Philadelphia.....	12,232	9,090	1,230,314	73.8	Mechanics and Traders, N. O.....	21,639	10,054	468,812	71.0
Manchesters, Manchester.....	59,932	60,297	3,592,200	100.6	Niagara, New York.....	8,984	8,248	1,246,078	46.4
Manheim, Germany.....	4,089	708	2,044,375	17.3	Pennsylvania, Philadelphia.....	21,573	8,208	1,299,828	38.0
Mrs. and Merchants, Pittsburgh.....	11,827	13,561	8,675,755	114.6	Phoenix, Hartford.....	30,490	19,921	1,103,183	65.3
Marine, London.....	16,124	135	3,143,210	7	Phenix, Liverpool.....	34,386	12,659	1,547,910	36.7
Mechanics, Philadelphia.....	17,092	13,839	971,204	80.9	Royal, Liverpool.....	48,601	29,172	1,319,793	60.0
Minnesota, Minneapolis.....	38,290	33,665	2,467,107	87.9	Western, Toronto.....	453,517	\$276,469	\$23,760,835	60.9
Mutual, New York.....	22,392	14,147	1,856,726	63.1	Totals.....	\$128,217	\$136,176	\$8,665,046	106.1
Merchants, Providence.....	6,704	8,968	549,980	133.7	Missouri.	19,075	15,218	1,786,400	79.7
Mercantile F. and M., Boston.....	9,418	9,067	774,343	105.8	Ætna, Hartford.....	11,770	11,982	1,010,935	101.8
Michigan F. and M., Detroit.....	27,627	21,742	2,168,137	77.6	Agricultural, Watertown.....	14,736	12,498	1,384,417	84.8
Milwaukee Mechanics, Milwaukee.....	73,439	86,067	4,895,887	117.2	Alleman, Pittsburgh.....	33,073	34,038	3,416,260	102.9
National, Hartford.....	35,553	193	1,558,000	3	American, New York.....	46,159	27,004	4,093,985	59.8
New York, New York.....	47,773	49,933	3,140,996	104.5	American, Philadelphia.....	59,823	70,556	4,656,035	129.2
Newark, Newark.....	2,994	5,593	544,000	57.5	American Central, St. Louis.....	199,690	128,457	15,976,783	64.3
New Hampshire, Manchester.....	26,708	29,647	2,387,837	111.0	Atlas, London.....	26,364	23,881	2,106,040	90.6
Niagara, New York.....	44,919	44,979	1,820,377	60.4	Boston Marine, Boston.....	6,766	5,468	1,365,792	80.5
Northern, London.....	35,443	21,430	1,830,599	87.0	Boylston, Boston.....	15,088	14,124	1,143,667	93.5
N. British and Mercantile, London.....	61,268	53,331	4,466,486	58.6	British America, Toronto.....	34,127	18,733	2,191,185	54.7
Northwestern Natl., Milwaukee.....	22,578	13,232	1,018,981	83.2	British and Foreign Marine.....	26	.....	9,400	.....
Norwich Union, Norwich.....	59,460	42,018	2,388,434	83.2	Broadway, New York.....	11,702	9,651	1,157,433	82.4
Orient, Hartford.....	37,821	30,427	3,776,686	104.2	Buffalo, Buffalo.....	30,886	27,023	2,761,763	87.5
Pacific, New York.....	12,138	16,586	1,280,884	136.6	Capital, Concord.....	9,994	8,992	689,246	90.0
Palatine, Manchester.....	14,100	5,478	972,362	77.2	Caledonian, Edinburgh.....	32,440	22,280	2,207,622	68.7
Pennsylvania, Philadelphia.....	47,736	36,858	2,144,071	38.8	Citizens, New York.....	26,958	38,737	1,964,433	143.3
Phenix, Brooklyn.....	64,246	55,755	5,575,700	54.5	Citizens, Pittsburgh.....	22,708	15,093	1,888,145	69.1
Phenix, London.....	84,327	67,855	6,013,835	80.4	Citizens, St. Louis.....	25,130	16,823	2,272,235	66.9
Phenix, New York.....	43,103	31,083	2,444,600	74.2	Columbian, Louisville.....	17,165	12,505	2,099,743	72.8
Providence-Washington, Prov.....	19,386	18,957	1,839,823	97.8	Commerces, Albany.....	3,754	2,033	373,950	54.1
Prussian National, Stettin.....	15,934	15,231	877,800	95.5					
Queen, New York.....	54,499	35,514	2,942,357	67.6					
Reliance Marine, Liverpool.....	5,690	109	1,435,756	1.9					
Reliance, Philadelphia.....	6,890	11,011	629,334	159.8					

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
<i>Missouri—Continued.</i>				
Commercial Union, London.....	\$89,581	\$95,874	\$8,959,935	107.0
Commonwealth, New York.....	21,878	4,144	1,972,161	18.9
Concordia, Milwaukee.....	44,162	38,024	3,764,993	86.1
Connecticut, Hartford.....	100,760	102,607	8,717,349	101.8
Continental, New York.....	158,499	175,216	15,966,939	110.6
Delaware, Philadelphia.....	22,038	20,520	2,521,494	92.8
Detroit F. and M., Detroit.....	18,335	13,668	1,894,723	74.5
Dwelling House, Boston.....	8,937	11,900	1,004,228	133.1
Eagle, New York.....	26,204	11,120	2,603,613	42.4
Equitable F. and M., Providence.	8,351	8,367	775,615	100.3
Farmers, York.....	15,579	21,351	1,036,538	137.0
Farragut, New York.....	11,444	5,854	585,200	51.1
Fire Association, Philadelphia....	71,906	56,770	4,997,120	78.9
Firemans, Baltimore.....	7,949	16,866	336,198	208.5
Firemans, Newark.....	17,985	26,878	1,048,673	149.4
Firemans Fund, San Francisco....	33,618	32,552	3,038,954	96.8
Franklin, Philadelphia.....	24,062	18,406	2,017,089	76.5
German-American, New York.....	109,506	118,473	8,871,675	108.1
German, Illinois.....	166,137	165,027	10,763,397	99.3
German, Philadelphia.....	23,021	21,207	1,719,671	88.4
Germania, New York.....	23,801	27,059	1,765,581	115.4
Girard F. and M., Philadelphia....	12,906	4,988	1,246,590	38.6
Glens Falls, Glens Falls.....	27,608	17,506	2,993,245	63.4
Granite State, Portsmouth.....	16,622	15,128	1,158,312	91.0
Grand Rapids, Grand Rapids.....	16,815	12,612	1,414,756	75.0
Greenwich, New York.....	25,083	18,536	2,755,947	73.9
Guardian F. and L., London.....	26,487	22,029	2,068,613	83.1
Hannover-Bremen, Hamburg.....	42,424	48,867	2,766,018	115.2
Hanover, New York.....	53,916	77,475	3,928,866	143.6
Hartford, Hartford.....	132,600	125,982	9,224,280	95.0
Home, New York.....	260,615	261,387	28,021,893	100.3
Imperial, London.....	35,320	33,978	2,202,455	96.2
Ins. Co. of N. America, Philadel.	110,368	157,492	8,912,542	142.8
Ins. Co. of State of Pa., Philadel.	13,339	15,953	1,110,263	119.5
Lancashire, Manchester.....	42,828	60,828	2,989,559	141.9
Lion, London.....	27,268	24,524	2,452,425	115.5
Liv. & Lon. & Globe, Liverpool..	111,365	85,564	7,433,245	76.8
London & Lancashire, Liverpool..	49,168	47,348	4,019,445	96.2
London Assurance.....	40,431	43,753	2,380,269	108.2

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
<i>Missouri—Continued.</i>				
Transatlantic, Hamburg.....	\$15,864	\$16,225	\$1,419,509	102.2
Union, London.....	10,891	12,671	824,641	110.3
Union, Philadelphia.....	11,852	10,035	1,237,114	84.6
United Firemen, Philadelphia....	14,930	13,168	1,027,395	88.2
United States, New York.....	13,280	10,568	1,446,044	78.4
Virginia F. and M., Richmond....	9,215	8,106	727,888	87.9
Westchester, New York.....	48,856	51,650	3,781,336	107.0
Western Assurance, Toronto.....	79,388	78,393	4,918,910	98.7
Williamsburgh City, Brooklyn....	14,350	17,767	1,209,718	137.7
Totals.....	\$5,077,299	\$4,951,388	\$407,887,636	97.5
<i>Mutual Companies.</i>				
American Guar. Fund, St. Louis....	\$5,348	\$2,743	\$711,630	51.3
Carondelet Home, St. Louis.....	1,797	591	131,160	33.4
Franklin, St. Louis.....	18,972	5,795	2,051,653	30.5
German Mutual, St. Louis.....	10,280	3,215	1,172,004	31.2
Hermann, Hermann.....	582	11	9,600	1.9
Hope Mutual, St. Louis.....	15,432	13,493	2,021,962	87.4
Jefferson Mutual, St. Louis.....	26,458	6,718	2,973,817	25.4
Laclede Mutual, St. Louis.....	5,322	2,727	970,865	50.5
Mo. State Mut. F. & M., St. Louis	9,641	5,695	1,185,558	59.0
St. Charles Mutual, St. Charles....	5,078	6,379	359,880	125.6
St. Louis Mutual, St. Louis.....	22,724	17,201	2,400,001	75.7
Washington Mutual, St. Louis....	12,758	11,856	1,851,913	92.9
Totals.....	\$134,431	\$76,423	\$16,490,043	56.8
<i>MONTANA.*</i>				
Atma, Hartford.....	\$21,936	\$11,133	\$893,900	50.7
Agricultural, Watertown.....	1,567	2,070	59,632	132.1
Alliance, London.....	13,948	3,339	724,160	23.9
American, Philadelphia.....	7,456	5,837	299,772	78.3
American, New York.....	2,399	20	90,351	3.8
American Central, St. Louis.....	10,744	4,139	440,583	38.5
Atlas, London.....	5,035	.....	205,140	38.5
British America, Toronto.....	4,404	1,698	167,624	38.5
Commercial Union, London.....	17,983	2,893	827,263	26.8
Connecticut, Hartford.....	8,906	2,633	366,707	26.6
Continental, New York.....	27,740	1,547	802,428	5.5

Lumbermans, Philadelphia.....	8,264	6,066	699,025	73-4	Delaware, Philadelphia.....	7,139	3,936	394,257	55-1
Mannheim, Manchester.....	100,966	88,435	7,858,669	87-5	Fire Association, Philadelphia....	7,784	7,784	319,591	8-5
Mfrs. and Merchants, Pittsburgh.	110	25,125	1,120,518	...	Firemans Fund, San Francisco...	82,707	11,085	1,333,421	33-9
Mechanics, Philadelphia.....	11,668	8,495	1,123,044	73-0	Franklin, Philadelphia.....	2,501	727	134,393	29-0
Mercantile F. and M., Boston.....	16,133	13,723	663,075	84-9	German-American, New York.....	11,504	1,873	544,178	10-3
Merchants, New York.....	7,359	9,935	663,075	135-1	Girard F. and M., Philadelphia...	2,396	587	103,314	24-5
Merchants, Providence.....	53,200	62,914	4,466,972	118-2	Greenwich, New York.....	2,379	1,209	133,636	50-8
Michigan F. and M., Detroit.....	8,351	8,367	775,615	100-3	Guardian, London.....	8,947	804	350,875	9-0
Millers National, Chicago.....	21,207	24,231	1,563,288	114-2	Hamburg-Bremer, Hamburg.....	8,766	379	372,447	4-3
Minneapolis Mechanics.....	9,287	54,205	389,300	88-5	Hamburg-Magdeburg, Hamburg...	1,464	...	81,812	...
Milwaukee Mechanics.....	48,327	38,918	4,369,639	80-5	Hartford, Hartford.....	18,933	7,984	...	42-1
Mutual, Minneapolis.....	7,223	4,092	492,300	56-6	Hanover, New York.....	18,933	7,984	163,923	25-3
Mutual, New York.....	41,884	62,940	3,475,311	150-3	Home, New York.....	9,852	823	163,923	25-3
National, Hartford.....	86,639	8,639	8,330,136	80-0	Home, New York.....	4,337	4,337	834,805	25-7
Newark, Newark.....	12,186	15,023	849,288	123-1	Home Mutual, San Francisco...	3,850	3,850	404,745	33-1
New Hampshire, Manchester.....	44,281	30,709	3,981,236	69-3	Imperial, London.....	12,634	4,766	512,734	37-7
New York, New York.....	4,467	...	471,000	...	Ins. Co. of North America, Phila.	12,712	2,682	531,379	21-1
Niagara, New York.....	85,147	4,712,395	4,712,395	114-4	Lancashire, Manchester.....	6,457	5,401	277,390	83-6
N. British & Mercantile, London.	149,549	9,945,242	9,945,242	109-9	Lion, London.....	10,434	2,495	397,992	23-9
Northern Assurance, London.....	65,580	4,615,300	4,615,300	96-3	Liv. and Lon. and Globe, Liv.....	21,015	6,481	989,451	26-5
Northwestern Nat'l, Milwaukee.	22,686	25,227	2,528,016	111-2	Lon. and Lancashire, Liverpool...	20,124	1,755	866,778	8-7
Norwich Union, Norwich.....	61,694	4,353,901	4,353,901	97-8	National, Hartford.....	15,921	3,460	652,500	21-7
Oakland Home, Oakland.....	36,999	39,773	3,164,730	107-7	Niagara, New York.....	13,667	4,218	495,809	32-3
Orient, Hartford.....	20,847	52,557	5,226,726	86-3	Northern, London.....	7,884	7,362	335,404	93-3
Pacific, New York.....	21,104	17,178	1,697,487	81-4	Norwich Union, Norwich.....	12,052	1,432	572,162	11-8
Palatine, Manchester.....	2,739	2,739	552,515	96-7	N. British and Mercantile, Lon...	10,922	2,257	484,227	90-6
Pennsylvania, Philadelphia.....	44,430	42,263	2,811,164	95-1	Pennsylvania, Philadelphia.....	6,868	6,179	270,735	80-8
Phenix, Brooklyn.....	134,650	9,355,000	9,355,000	91-4	Phenix, Brooklyn.....	17,147	2,897	595,769	16-9
Phenix Assurance, London.....	90,844	6,768,385	6,768,385	86-6	Phenix, Hartford.....	16,825	4,337	834,805	25-7
Phenix, Hartford.....	118,890	9,740,373	9,740,373	84-9	Phenix, London.....	13,152	3,510	536,610	26-7
Providence-Washington, Prov...	29,880	33,700	2,426,896	113-0	Providence-Washington, Prov...	8,406	2,262	332,841	26-9
Prussian National, Stettin.....	25,904	25,009	1,975,294	96-5	Prussian National, Stettin.....	2,571	1,545	128,655	60-1
Queen Ins. Co. of America, N.Y.	57,925	64,713	3,792,590	111-7	Queen, New York.....	4,394	2,098	293,186	48-7
Reading, Reading.....	17,243	8,928	1,351,941	51-8	Royal, Liverpool.....	19,973	9,192	875,468	46-0
Reliance, Philadelphia.....	8,543	8,734	900,430	102-1	St. Paul F. and M., St. Paul.....	5,074	750	272,871	13-2
Reliance Marine, England.....	1,210	...	293,883	...	Scottish Union and Nat'l, Ed'n'gh	18,555	5,904	739,043	31-8
Rochester German, Rochester.....	31,174	22,393	3,333,369	71-6	Springfield F. and M., Springfield	7,395	1,683	399,486	22-8
Royal, Liverpool.....	92,156	73,799	6,339,530	80-0	Sun, San Francisco.....	4,758	5,230	290,105	109-9
Rangers, New York.....	7,795	6,410	471,390	83-0	Sun Insurance Office, London...	11,469	3,200	441,153	27-9
St. Paul F. and M., St. Paul.....	49,048	56,591	5,356,670	115-3	Teutonia, New Orleans.....	823	337	31,850	40-4
Scot. Union & Nat'l, Edinburgh.	70,871	69,080	6,520,110	98-7	Traders, Chicago.....	6,451	412	220,721	6-4
Southern, New Orleans.....	27,701	35,464	1,433,792	128-0	Transatlantic, Hamburg.....	7,646	2,365	298,075	30-9
Spring Garden, Philadelphia.....	12,868	14,010	1,271,715	109-3	Union, London.....	11,537	7,885	499,686	68-3
Springfield F. & M., Springfield.	70,776	58,433	5,201,092	82-5	United Firemen, Philadelphia...	1,943	235	70,035	12-1
Stn, London.....	41,494	73,086	5,080,365	118-8	Westchester, New York.....	7,957	1,318	313,346	18-6
Teutonia, New Orleans.....	16,938	13,681	1,075,830	80-7	Western, Toronto.....	7,469	1,804	597,535	24-1
Thames and Mersey, England.....	105	...	37,788	...	Totals.....	...	\$18,238	\$24,490,066	30-9
Traders, Chicago.....	46,344	44,696	2,837,108	96-4					

* Losses are losses paid.

Hanover, New York.....	19,415	17,251	1,284,866	88.8	Norwich Union, Norwich.....	2,434	3,580	103,955	144.6
Hartford, Hartford.....	40,989	21,898	8,676,203	53.4	Ortland, Hartford.....	1,340	7	57,975	144.5
Home, New York.....	80,324	47,261	8,328,445	52.9	Pelaine, Manchester.....	2,770	1,144	102,400	41.3
Home, Omaha.....	156,240	59,424	9,711,506	33.6	Pennsylvania, Philadelphia.....	1,686	1,034	65,035	63.8
Ins. Co. of North America, Phila.....	34,844	24,673	1,868,171	30.3	Phoenix, Brooklyn.....	1,981	.....	70,795	.....
Ins. Co. of State of Pa., Phila.....	6,761	2,059	554,833	90.3	Phoenix, Hartford.....	2,236	1,904	98,660	58.3
Imperial, London.....	6,829	6,846	488,518	100.2	Phoenix Assurance, London.....	3,280	3,366	119,875	102.6
Liv. and London and Globe, Liv.....	28,357	23,318	1,779,578	82.2	Queen of America, New York.....	2,375	4	90,406	2
Lon. and Lancashire, Liverpool.....	11,078	12,028	520,286	108.5	Royal, Liverpool.....	2,375	3,380	103,955	144.5
Lancashire, Manchester.....	15,864	11,551	1,085,762	79.8	Scottish Union & Nat., Edinburgh.....	2,435	909	143,075	13.5
London Assurance Corporation.....	4,584	2,279	310,586	49.7	Springfield F. & M., Springfield.....	3,772	2,397	45,500	183.3
Lion, London.....	4,041	1,849	397,205	30.9	Sun, San Francisco.....	1,269	1,969	58,902	142.5
Minnesota, Minneapolis.....	4,041	153	184,978	4.8	Sun, London.....	1,382	3,076	51,031	65.3
Merchants, Providence.....	771	2,020	95,316	262.0	Western, Toronto.....	1,530	1,000	57,996	63.6
Michigan F. and M., Detroit.....	3,973	3,846	276,468	96.8	Totals.....	96,896	61,664	3,924,576	.....
Mechanics, Philadelphia.....	5,597	1,948	544,287	35.0	NEW HAMPSHIRE.				.....
Mercantile F. and M., Boston.....	3,237	3,106	315,350	95.9	Ætna, Hartford.....	56,405	14,423	4,933,522	25.5
Milwaukee Mechanics, Milwaukee.....	20,954	13,317	1,770,985	65.7	American, Boston.....	3,185	.....	284,590	13.8
Manchester, Manchester.....	19,232	12,702	1,578,746	66.0	American, Newark.....	1,848	890	166,950	48.5
Northwestern Nat'l, Milwaukee.....	13,931	4,390	1,360,591	31.6	American, New York.....	5,873	2,167	341,111	36.9
New Hampshire, Manchester.....	20,695	14,839	1,897,833	70.8	British America, Toronto.....	4,352	2,477	308,436	56.9
National, Hartford.....	27,838	19,883	1,718,425	71.4	Caledonian, Edinburgh.....	10,141	4,002	664,404	39.4
Niagara, New York.....	17,452	14,849	1,045,657	85.1	Capital, Concord.....	39,551	22,198	4,247,282	56.1
Norwich Union, Norwich.....	11,593	9,087	802,805	78.6	Commercial Union, London.....	17,239	4,754	888,072	27.6
N. British & Mercantile, London.....	36,022	22,454	2,295,984	62.3	Connecticut, Hartford.....	4,571	.....	642,100	.....
Northern, London.....	9,528	11,143	690,228	116.9	Continental, New York.....	19,300	7,717	1,491,959	40.0
Oakland Home, Oakland.....	30,786	10,591	2,149,339	34.4	Dwelling House, Boston.....	2,644	702	311,690	26.5
Omaha, Omaha.....	82,753	33,783	5,005,020	40.8	Fire Association, Philadelphia.....	8,477	8,477	466,997	121.9
Orient, Hartford.....	10,668	5,739	1,024,499	144.8	Fire Underwriters, Concord.....	6,950	6,501	1,148,973	39.3
Phoenix, Hartford.....	45,835	28,852	3,015,338	62.9	Firemans Fund, San Francisco.....	9,256	4,881	642,255	52.7
Pennsylvania, Philadelphia.....	16,918	19,816	1,039,238	17.1	Granite State, Portsmouth.....	207,254	62,561	23,104,024	30.1
Peninsula, Brooklyn.....	210,947	197,092	10,314,649	60.2	Guardian, London.....	8,447	4,532	541,051	53.8
Prussian National, Sietlin.....	3,227	3,371	222,578	104.4	Hartford, Hartford.....	14,444	4,191	1,215,643	29.0
Providence-Washington, Prov.....	13,287	9,569	766,556	72.0	Home, New York.....	9,969	3,481	847,515	34.9
Phoenix, London.....	13,443	6,934	960,430	51.5	Imperial, London.....	8,286	14,684	591,071	177.2
Pelaine, Manchester.....	5,864	74	416,468	1.2	Ins. Co. of North America, Phila.....	5,627	5,627	2,195,123	16.4
Queen of America, New York.....	22,229	1,402,351	1,402,351	100.3	Lancashire, Manchester.....	6,782	495	620,598	7.3
Rochford, Rockford.....	14,115	13,388	1,005,469	94.8	Liv. and London and Globe, Liv.....	15,097	16,551	1,047,627	110.0
Royal, Liverpool.....	24,700	17,387	1,586,266	70.4	Manchester, Manchester.....	20,447	6,998	1,019,396	49.4
Rochester German, Rochester.....	4,658	4,255	346,648	91.3	Mercantile F. and M., Boston.....	17,595	16,581	1,485,556	81.1
Reliance, Philadelphia.....	7,911	1,979	941,500	85.0	National, Hartford.....	2,163	2,163	379,421	50.9
Spring Garden, Philadelphia.....	7,278	7,452	1,896,941	54.7	New Hampshire, Manchester.....	15,499	4,141	1,324,167	26.7
State, Des Moines.....	33,745	17,781	795,066	19.9	Niagara, New York.....	188,835	73,324	17,347,001	38.8
Scottish Union & Nat'l, Edinab gh.....	8,315	1,239	705,066	59.7	North British & Mercantile, Lon.....	12,488	2,434	834,209	19.5
St. Paul F. and M., St. Paul.....	12,397	6,259	1,083,580	50.8	Northern, London.....	12,002	2,651	851,793	22.0
Security, New Haven.....	4,997	293	401,871	5.8	.....	9,477	7,755	590,765	81.8
Springfield F. and M., Springfield.....	48,424	24,335	2,865,109	50.2	.....	.....	.....	.....	.....
Sun, London.....	13,070	15,484	1,103,930	118.4	.....	.....	.....	.....	.....

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	% of Losses to Premiums
NEW HAMPSHIRE—Continued.				
Norwich Union, Norwich.....	\$6,271	\$4,599	\$666,648	72.2
Orient, Hartford.....	14,911	5,099	1,041,202	34.2
Palatine, Manchester.....	2,311	2,511	165,211	108.6
Pennsylvania, Philadelphia.....	14,451	9,065	867,399	62.2
Phoenix, Brooklyn.....	22,456	10,764	1,993,536	48.0
Phoenix, Hartford.....	16,898	4,858	1,386,822	28.7
Phoenix, London.....	8,759	4,566	573,897	51.4
Providence-Washington, Prov.....	5,123	2,267	481,367	42.2
Portsmouth, Portsmouth.....	10,368	3,519	729,601	33.9
Queen, New York.....	8,682	1,240	615,927	14.2
Royal, Liverpool.....	36,812	2,437	2,405,120	60.9
Scottish Union and Nat'l, Edinb'g	12,552	1,836	1,213,486	14.6
Springfield F. and M., Mass.....	14,636	7,952	939,648	54.3
State Dwelling House, Concord.....	2,328	327	236,775	14.0
Sun, London.....	13,377	6,121	1,310,020	45.7
United States, New York.....	2,676	1,190	935,379	44.4
Western, Toronto.....	4,947	1,065	340,322	21.5
Totals.....	\$965,262	\$398,795	\$84,823,416	41.3
Mutual Companies.				
Chester County, Keene.....	\$17,859	\$12,687	\$1,149,490	71.0
Concord, Concord.....	15,222	8,912	998,551	58.3
Fitchburg, Fitchburg.....	21,607	8,158	1,510,972	37.6
Manf. and Merchants, Concord.....	55,674	23,118	3,728,877	41.3
Massachusetts, Boston.....	9,838	6,571	1,013,935	66.8
Merchants & Farmers, Worcester	5,393	719	397,993	13.3
Providence, Rhode Island.....	672	.....	61,100	.....
Traders and Mechanics, Lowell.....	11,198	7,052	781,987	63.0
Totals.....	\$137,533	\$67,199	\$9,641,915	48.8
NEW JERSEY.				
Etna, Hartford.....	\$71,813	\$28,353	\$8,672,820	39.4
Agricultural, Watertown.....	24,367	17,499	2,364,200	71.7
American, Boston.....	4,356	1,243	443,390	28.5
American Central, St. Louis.....	9,802	6,381	904,698	65.1
American, Newark.....	99,237	34,824	16,475,642	35.1
American, New York.....	60,339	28,991	6,000,698	47.9

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	% of Losses to Premiums
NEW JERSEY—Continued.				
Merchants, Providence.....	\$2,995	\$3,041	\$397,780	104.6
Milwaukee Mechanics, Milwaukee.....	2,701	779	316,273	28.8
Mount Holly, Mount Holly.....	7,827	6,368	711,117	81.4
Mutual, New York.....	52,521	260	4,535,065	5.5
National, Elizabeth.....	11,523	7,987	1,474,307	68.9
National, Hartford.....	50,858	27,700	1,473,342	54.4
Newark, Newark.....	33,920	12,754	5,001,674	37.6
New Brunswick, New Brunswick.....	3,585	1,134	415,302	31.6
New Hampshire, Manchester.....	20,462	8,874	2,060,127	43.3
North British and Mercantile, Lon	45,699	30,844	6,410,976	67.5
New York Bowery, New York.....	13,935	4,085	859,450	29.1
Niagara, New York.....	111,445	58,944	13,700,993	52.8
Northern Assurance, London.....	29,752	6,710	4,035,619	22.5
North River, New York.....	15,267	5,559	1,870,259	36.4
Northwestern Nat'l, Milwaukee.....	1,324	1,824	236,738	137.7
Orient, Hartford.....	58,137	32,302	7,213,065	55.5
Pacific, New York.....	33,099	24,371	3,285,428	73.7
Palatine, Manchester.....	5,220	2,743	431,695	52.5
Pennsylvania, Philadelphia.....	16,393	7,069	1,563,720	43.2
Phoenix, Brooklyn.....	27,906	19,898	2,766,000	71.3
Phoenix, Hartford.....	104,420	63,118	13,940,204	60.4
Phoenix, London.....	50,977	25,322	5,045,925	49.8
Providence-Washington, Prov.....	85,754	38,287	8,243,668	44.6
Prussian National, Stettin.....	14,731	8,105	1,872,730	55.0
Queen of America, New York.....	6,449	371	1,022,236	57.5
Reading, Reading.....	71,717	44,409	8,741,580	61.9
Rochester German, Rochester.....	11,280	4,481	1,076,563	40.2
Royal, Liverpool.....	168,246	5,928	886,655	56.5
Rutgers, New York.....	4,027	921,379	17,775,326	54.9
St. Paul F. and M., St. Paul.....	32,222	8,208	290,447	25.4
Scottish Union and Nat'l, Edinb'g	19,166	10,123	2,195,707	52.8
Springfield F. and M., Springfield	45,082	23,880	4,258,420	51.9
Spring Garden, Philadelphia.....	11,876	3,616	1,354,283	30.4
Standard, Trenton.....	30,292	9,464	2,922,531	30.6
Sun Insurance Office, London.....	27,583	18,893	3,220,485	68.1
Teutonia, New Orleans.....	7,771	2,286	669,870	29.4
Transatlantic, Hamburg.....	11,734	11,889	1,516,002	101.3
Union Society, London.....	11,358	1,273	1,189,681	11.2

American, Philadelphia.....	51,848	28,515	4,933,489	55.0	Union, Philadelphia.....	13,985	9,766	1,498,689	69.8
Atlas, London.....	14,387	5,086	1,746,959	35.3	United States, Philadelphia..	9,950	4,950	866,473	59.7
British America, Toronto.....	15,861	7,513	1,424,602	47.3	United States, New York.....	6,689	145	777,815	2.1
Broadway, New York.....	8,185	1,051	1,146,200	12.8	Westchester, New York.....	51,316	24,994	5,284,559	48.7
Bucks Co. Con'tship, Morristown..	5,408	904	190,763	5.6	Western, Toronto.....	27,399	7,530	2,916,783	27.4
Buffalo, Gen'tship, Buffalo.....	5,081	1,665	523,326	32.7	Williamsburgh City, Brooklyn..	14,463	6,712	2,070,033	46.4
Caledonian, Edinburgh.....	34,546	23,122	3,337,780	71.0	Totals.....	\$3,696,756	\$1,781,783	\$435,865,310	48.2
Camden, Camden.....	10,670	7,215	1,993,132	67.6					
Citizens, New York.....	1,988	797,408	2,573,083	39.8					
Citizens, Pittsburgh.....	12,730	2,730	2,573,083	124.0					
Columbian, Louisville.....	10,385	12,877	10,835,984	56.8					
Commerce, Albany.....	3,690	8,663	10,835,984	56.8					
Commercial Union, London.....	43,795	43,795	3,954,000	62.2					
Connecticut, Hartford.....	33,130	20,613	11,487,704	29.4					
Continental, New York.....	24,175	24,175	1,654,249	15.4					
Delaware, Philadelphia.....	15,869	3,351	1,233,528	53.0					
Dwelling House, Boston.....	7,645	4,050	417,014	35.2					
Equitable F. and M., Providence..	3,686	1,207	505,115	48.9					
Farmers, York.....	6,680	3,238	7,220,952	61.9					
Fire Association, Philadelphia.....	70,592	43,799	252,630	47.2					
Fire Ins. Co. of Co. of Phila.....	4,345	2,051	26,415	27.6					
Fire Ins. Co. of Northampton Co..	887	245	3,385,049	42.1					
Firemans Fund, San Francisco....	31,006	13,056	12,350,546	22.3					
Firemans, Newark.....	87,421	19,497	685,698	12.0					
Franklin, Philadelphia.....	7,838	948	26,354,743	66.0					
German-American, New York.....	184,570	121,911	13,357,386	40.4					
Germania, New York.....	87,000	35,178	906,595	53.7					
Girard F. and M., Philadelphia.....	10,522	5,652	1,610,534	39.7					
Glens Falls, Glens Falls.....	14,643	5,815	401,915	3.4					
Globe, New York.....	2,062	71	8,972,286	74.1					
Greenwich, New York.....	46,652	34,616	5,180,318	19.5					
Guaranty, London.....	37,175	7,267	2,737,967	67.7					
Hamburg-Bremen, Hamburg.....	30,224	20,512	6,796,547	22.5					
Hanover, New York.....	60,358	13,590	6,336,212	27.7					
Hartford, Hartford.....	64,761	17,948	16,491,461	44.4					
Home, New York.....	151,893	67,452	2,557,122	27.1					
Imperial, London.....	26,324	7,139	9,353,562	45.9					
Ins. Co. of N. America, Phila.....	82,874	38,035	335,200	65.0					
Ins. Co. of the State of Pa., Phila..	3,138	4,539	7,459,080	24.4					
Lancashire, Manchester.....	60,928	39,615	608,228	34.7					
Lion, London.....	5,069	1,238	36,226,833	91.5					
Liv. and London and Globe, Liv.....	306,011	106,369	5,360,953	54.0					
London Assurance Corp'n, Lon.....	40,127	36,730	6,475,684	71.4					
Lyon and Lancashire, Liverpool.....	71,126	38,423	4,260,430	65.8					
Manchester, Manchester.....	41,794	29,875	385,340	60.3					
Mechanics, Philadelphia.....	3,622	2,383	1,179,100	74.7					
Mech. and Traders, New Orleans...	13,082	7,885	9,851,575						
Merchants, Newark.....	78,221	58,480							

NEW MEXICO.

Alma, Hartford.....

Alliance, London.....

American Central, St. Louis.....

American, Philadelphia.....

Atlas, London.....

British America, Toronto.....

Caledonian, Edinburgh.....

Citizens, New York.....

Commercial Union, London.....

Connecticut, Hartford.....

Continental, New York.....

Delaware, Philadelphia.....

Fire Association, Philadelphia.....

Firemans Fund, San Francisco....

Greenwich, New York.....

German-American, New York.....

Hanover, New York.....

Hartford, Hartford.....

Home, New York.....

Imperial, London.....

Ins. Co. of North America, Phila.....

Lancashire, Manchester.....

Lion, London.....

Liv. & Lon. & Globe, Liverpool.....

London & Lancashire, Liverpool.....

Merchants, Newark.....

National, Hartford.....

Niagara, New York.....

North British and Mercantile, Lon.....

Northern, London.....

Norwich Union, Norwich.....

Orient, Hartford.....

Palatine, Manchester.....

Pennsylvania, Philadelphia.....

Phoenix, Brooklyn.....

Providence-Washington, Prov.....

Prussian National, Sietlin.....

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
NEW MEXICO—Continued.				
Queen, New York.....	\$3,891	\$1,134	\$171,531	29.1
Royal, Liverpool.....	8,052	10,251	384,222	127.3
Scottish Union and Nat'l, Edinburgh.....	6,016	9,556	283,330	158.8
Springfield F. & M., Springfield.....	5,807	5,756	287,365	99.0
St. Paul F. and M., St. Paul.....	2,658	2,469	126,225	92.9
Sun, London.....	2,920	1,107	133,583	37.9
Traders, Chicago.....	4,523	4,471	206,580	96.8
Western, Toronto.....	1,490	118	119,202	7.9
Totals	\$180,900	\$166,184	\$8,869,315	91.8
NEW YORK.				
Alma, Hartford.....	\$771,352	\$520,679	\$135,494,682	67.5
Agricultural, Watertown.....	258,506	189,357	33,870,700	73.2
Albany, Albany.....	60,473	51,983	7,348,422	85.8
Allemanina, Pittsburgh.....	26,536	6,559	3,167,112	24.7
American, Boston.....	47,727	34,160	6,311,819	71.5
American, Newark.....	94,617	75,251	17,327,028	79.5
American, New York.....	293,881	230,753	38,188,514	79.3
American Central, St. Louis.....	130,599	82,494	12,925,463	63.1
American, Philadelphia.....	179,789	106,332	17,968,273	59.1
Armenia, Pittsburgh.....	.....	140	.....	.....
Atlanta Home, Atlanta.....	13,286	2,041	1,839,126	22.1
Baylston, Boston.....	47,700	33,087	5,305,742	69.3
British America, Toronto.....	141,154	102,028	12,370,341	72.3
Broadway, New York.....	100,190	62,849	13,914,026	62.7
Buffalo German, Buffalo.....	121,561	77,851	19,495,924	64.0
Caledonian, Edinburgh.....	221,430	146,963	22,730,111	66.4
Capital, Concord.....	55,912	19,936	6,416,204	35.6
Citizens, St. Louis.....	12,810	8,060	1,502,000	62.8
Columbia, Pittsburgh.....	62,506	45,172	8,340,541	72.2
Commerce, Louisville.....	78,148	65,360	.....	83.5
Commercia, Albany.....	60,134	44,101	7,588,558	73.3
Commercial Union, London.....	594,828	544,237	77,762,314	91.4
Commercial Union, New York.....	269	.....	14,000	.....
Commonwealth, New York.....	61,384	30,059	8,166,129	48.9
Concordia, Milwaukee.....	39,923	33,540	4,319,531	84.0
Connecticut, Hartford.....	199,632	139,832	20,795,300	70.0
Continental, New York.....	512,606	317,587	100,776,693	61.9
NEW YORK—Continued.				
Milwaukee Mechanics, Milwaukee.....	\$51,731	358,957	\$6,327,941	64.6
Nassau, Brooklyn.....	40,711	130,949	7,060,415	26.8
National, Hartford.....	211,599	165,166	24,321,771	78.0
Newark, Newark.....	37,380	165,003	4,314,036	82.9
New Hampshire, Manchester.....	124,450	38,181	14,334,277	62.8
New York Bowery, New York.....	120,024	69,383	16,010,496	57.8
New York, New York.....	31,883	17,969	3,447,221	56.4
Niagara, New York.....	532,223	359,938	83,603,666	67.6
North American, Boston.....	38,143	11,338	4,998,501	29.7
North River, New York.....	132,277	82,487	14,306,792	62.3
Northwestern Nat'l, Milwaukee.....	40,603	30,358	5,590,106	72.6
N. British and Mercantile, London.....	358,957	269,752	69,817,712	75.1
Northern Assurance, London.....	155,068	130,949	21,694,917	88.0
Norwich Union, Norwich.....	233,635	169,314	41,247,753	72.4
Orient, Hartford.....	193,293	134,673	43,039,320	69.7
Pacific, New York.....	125,653	104,031	22,141,638	82.8
Palatine, Manchester.....	396,166	326,161	44,719,640	82.3
Pennsylvania, Philadelphia.....	255,059	108,343	30,500,000	42.4
Peter Cooper, New York.....	19,335	6,886	7,068,370	35.6
Phoenix, Brooklyn.....	511,548	388,931	103,115,970	76.0
Phoenix, Hartford.....	393,777	246,192	39,089,244	62.5
Phoenix, London.....	300,458	180,864	53,161,402	60.2
Providence-Washington, Prov.....	222,488	190,339	53,077,204	85.5
Prussian National, Stettin.....	59,763	43,150	5,703,155	72.2
Queen, New York.....	269,366	195,374	50,322,800	72.5
Reading, Reading.....	102,707	80,995	11,269,854	78.8
Reliance, Philadelphia.....	67,306	33,073	11,193,757	49.1
Rochester-German, Rochester.....	97,486	73,157	11,374,841	75.0
Royal, Liverpool.....	1,107,200	705,008	193,130,459	63.7
Ruigers, New York.....	44,800	34,171	5,811,154	76.1
St. Paul F. and M., St. Paul.....	205,500	147,218	32,869,300	71.6
Scottish Union and Nat'l, Edinburgh.....	297,372	139,631	33,454,312	73.6
Security, New Haven.....	116,543	86,735	13,033,950	54.4
Springfield F. and M., Springfield.....	176,252	137,245	15,994,376	77.8
Spring Garden, Philadelphia.....	82,652	38,849	13,211,767	47.0
Stuyvesant, New York.....	74,286	38,844	12,955,001	52.3
Sun Mutual, New Orleans.....	33,172	10,577	4,160,287	31.9
Sun, London.....	364,613	251,253	42,660,370	68.9
Teutonia, New Orleans.....	43,540	28,640	4,022,743	65.8

Delaware, Philadelphia.....	132,451	147,808	18,712,981	111.5	Transatlantic, Hamburg.....	60,118	94,477	9,040,488	57.3
Detroit F. and M., Detroit.....	19,585	7,308	2,500,970	37.7	Union, Buffalo.....	31,720	9,711	3,191,353	30.6
Eagle, New York.....	102,019	54,188	23,649,869	53.1	Union, London.....	76,855	50,265	9,998,853	65.4
Empire City, New York.....	34,914	14,608	4,942,194	41.8	Union, Philadelphia.....	49,102	22,242	7,563,180	55.3
Equitable F. and M., Providence.....	44,116	28,926	6,281,141	66.6	United Firemen, Philadelphia.....	88,356	35,306	7,248,206	51.6
Farragut, New York.....	46,436	42,182	4,328,653	90.8	United States, New York.....	88,890	51,585	9,254,837	58.2
Fire Association of Phila.....	53,137	38,598	7,749,300	72.6	Westchester, New York.....	236,890	155,399	32,711,836	95.6
Firemen's Fund, San Francisco.....	236,460	159,068	40,021,355	67.3	Western, Pittsburgh.....	39,000	25,757	4,655,978	64.5
Fire Ins. Co., Co. of Phila., Phila.....	28,086	119,789	23,429,438	57.5	Williamsburgh City, Brooklyn.....	243,070	152,075	34,468,995	59.5
Firemen, Baltimore.....	39,905	24,604	3,793,593	61.6	Totals.....	\$22,872,235	\$16,166,570	\$3,468,789,039	70.7
Firemen, Boston.....	59,104	16,524	5,964,657	27.9	Mutual Companies.....				
Firemen, Newark.....	16,762	5,312	2,722,728	31.1	Dutchess Co. Mut., Poughkeepsie	\$82,887	\$54,726	\$7,176,688	66.0
First National, Worcester.....	82,594	71,870	19,940,369	87.0	Erne County Mutual, Buffalo.....	41,768	13,309	5,188,258	31.8
Franklin, Philadelphia.....	29,321	15,104	3,291,316	51.5	Glen Cove Mutual, Glen Cove.....	20,687	15,486	8,597,958	74.8
German-American, New York.....	90,827	58,077	10,395,136	64.3	Harmonia Mutual, Buffalo.....	9,356	1,934	1,313,590	20.6
German-American, New York.....	730,132	611,199	186,905,849	83.7	Mutual, Albany.....	359	1,601	1,168,578	618.2
German, Pittsburgh.....	289,132	135,706	52,144,078	46.9	Mutual, New York.....	393,985	256,660	25,130,350	84.4
Girard F. and M., Philadelphia.....	84,207	67,499	7,264,975	80.1	Richmond Co. Mut., Richmond.....	6,481	8,532	1,230,112	343.9
Glens Falls, Glens Falls.....	24,044	19,450	3,223,530	80.9	Suffolk County Mutual, Southold.....	2,674	1,286	2,784,818	19.2
Globe, New York.....	176,514	81,928	24,226,679	40.4	Totals.....	\$4,681,117	\$3,353,534	\$52,588,282	75.5
Grand Rapids, Grand Rapids.....	30,091	15,502	10,014,822	51.5	NORTH CAROLINA.....				
Grand Rapids, New York.....	50,566	13,217	2,568,103	64.2	Etina, Hartford.....	\$28,202	\$15,356	\$2,186,974	54.4
Guaranty, London.....	347,200	283,683	86,328,600	81.7	American, Philadelphia.....	22,508	20,099	1,395,837	86.0
Guaranty, New York.....	231,974	174,508	37,788,282	75.5	American, New York.....	12,871	17,356	679,449	134.8
Hamburg-Bremen, Hamburg.....	185,975	137,109	21,742,650	73.7	British and Foreign.....	607	.....	.....	.....
Hamilton, New York.....	65,936	37,707	11,267,767	57.2	Boston Marine, Liverpool.....	1,419	.....	.....	.....
Hanover, New York.....	295,970	257,252	41,297,229	86.9	Caledonian, Edinburgh.....	12,826	4,448	673,686	34.7
Hartford, Hartford.....	594,474	383,433	60,517,312	64.7	Carolina, New York.....	14,306	6,000	.....	41.9
Home, New York.....	1,113,001	806,382	178,337,195	72.4	Citizens, New York.....	4,984	2,708	263,934	54.3
Imperial, London.....	236,316	101,770	27,122,971	81.1	Commercial Union, London.....	20,244	.....	1,375,731	112.7
Ins. Co. of North America, Phila.....	1,105,752	998,994	188,794,521	90.3	Connecticut, Hartford.....	.....	6,414	379,300	.....
Ins. Co. of the State of Pa., Phila.....	42,313	40,574	6,595,915	95.8	Continental, New York.....	14,441	.....	1,190,534	92.8
Kings County, Brooklyn.....	36,244	15,399	45,043,694	127.1	Delaware, Philadelphia.....	12,452	11,389	484,220	193.7
Lancashire, Manchester.....	364,653	463,714	11,615,567	74.9	Fire Association, Philadelphia.....	12,452	14,204	750,065	114.0
Lion, London.....	101,005	75,714	15,287,579	75.8	Georgia Home, Columbus.....	20,016	22,569	1,892,082	86.7
Liv. and London and Globe, Liv.....	1,128,678	856,199	158,517,402	75.8	German-American, New York.....	11,663	.....	945,884	111.8
London and Lancashire, Liv.....	328,768	206,444	78,517,402	59.2	Germania, New York.....	4,799	.....	35,788	205.6
London, London.....	221,393	124,459	40,451,595	59.4	Greenwich, New York.....	6,990	3,596	643,408	52.0
Lombard, Philadelphia.....	43,709	16,334	7,450,247	37.3	Guardian, London.....	7,149	.....	501,231	172.9
Manchester, Manchester.....	180,861	105,411	21,804,694	58.3	Hamburg-Bremen, Hamburg.....	29,533	.....	1,457,581	111.2
Mifs. and Builders, Pittsburgh.....	160,789	37,246	19,996,175	23.1	Hanover, New York.....	9,969	5,417	597,868	54.3
Mfrs. and Merchants, New York.....	51,326	29,468	6,961,830	57.4	Hartford, Hartford.....	35,726	.....	2,986,075	63.5
Mechanics, Philadelphia.....	80,856	42,601	6,604,560	70.1	Home, New York.....	30,892	27,178	2,406,114	88.0
Mechanics and Traders, New Orleans.....	46,797	50,432	5,729,663	107.8	Imperial, London.....	8,005	.....	.....	195.8
Mercantile F. and M., Boston.....	26,823	12,864	4,270,793	48.0					
Mercantile, Newark.....	153,512	112,006	17,997,993	76.0					
Merchants, Providence.....	59,115	28,230	7,456,503	47.7					
Michigan F. and M., Detroit.....	33,035	18,522	3,171,256	56.0					

* Losses paid.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
NORTH CAROLINA—Continued.				
Ins. Co. of North America, Phila.	\$22,798	\$15,304	\$1,702,813	67.1
Lancashire, Manchester.....	14,495	17,876	899,323	123.3
Liv. and Lon. and Globe, Liv.	53,842	39,649	3,737,877	73.6
London Assurance, Lond.n.	5,746	7,220	399,179	125.6
London and Lancashire, Liverpool	11,934	24,108	688,842	202.8
Lion, London.....	7,013	6,871	689,310	90.2
Manchester, Manchester.....	9,757	13,158	435,866	134.8
Marine, London.....	1,018	*271	201,546	26.6
Mech. and Traders, New Orleans.	9,426	9,248	746,380	98.1
Merchants, Newark.....	2,647	5,513	212,593	208.2
National, Hartford.....	6,585	6,592	476,479	100.1
Niagara, New York.....	17,024	9,941	822,288	58.4
N. British and Mercantile, London	12,700	5,825	820,613	45.6
North Carolina Home.....	53,759	*30,737	2,631,689	57.1
Northern, London.....	12,850	*11,564	965,594	89.9
Norwich Union, Norwich.....	11,399	14,344	678,078	126.5
Orient, Hartford.....	15,212	14,135	1,073,323	92.8
Palatine, Manchester.....	13,471	*6,488	817,950	48.1
Panlico Ins. and Banking.....	5,588	*2,439	.....	43.6
Pennsylvania, Philadelphia.....	12,976	14,385	830,501	110.1
Phenix, Brooklyn.....	18,367	*4,599	1,290,103	25.0
Phoenix.....	24,665	19,188	1,444,449	77.8
Queen, New York.....	12,651	*10,999	705,609	81.4
Royal, Liverpool.....	21,601	16,093	1,690,655	74.5
St. Paul, F. and M., St. Paul.....	13,970	*16,368	955,295	117.1
Scottish Union and Natl., Edin'gh	19,235	20,598	1,783,035	107.1
Springfield F. and M., Springfield	18,791	*19,127	1,195,776	107.7
Southern, New Orleans.....	19,934	*13,300	745,337	66.7
Sun, London.....	5,000	12,192	730,400	243.8
Virginia F. and M., Richmond.....	52,380	31,953	2,685,067	61.0
Westchester, New York.....	7,240	4,522	478,456	62.4
Western, Toronto.....	18,918	*16,118	897,684	85.1
Totals	\$854,016	\$720,702	\$53,723,284	84.4
NORTH DAKOTA.				
Atina, Hartford.....	\$10,541	\$41,025	\$407,776	389.2
British America, Toronto.....	5,379	25,004	228,569	464.8
Caledonian, Edinburgh.....	5,797	17,381	280,468	301.4
OHIO—Continued.				
Buffalo German, Buffalo.....	\$37,569	\$18,653	\$3,803,825	49.6
Caledonian, Edinburgh.....	61,916	37,093	4,668,513	59.9
Capital, Chicago.....	31,358	13,324	1,471,000	62.4
Chicago, Chicago.....	32,498	37,010	4,137,808	113.8
Cincinnati, Cincinnati.....	35,404	15,880	2,808,954	44.8
Citizens, New York.....	27,431	17,324	2,297,337	58.9
Citizens, Pittsburgh.....	27,428	15,867	2,171,751	57.8
Citizens, St. Louis.....	4,336	*202	276,564	46.6
Columbia, Dayton.....	99,089	40,272	9,893,470	40.6
Columbian, Louisville.....	32,844	16,904	3,702,055	51.7
Commerce, Albany.....	9,974	14,637	926,082	146.6
Commercial, Cincinnati.....	51,721	33,077	3,799,028	63.8
Commercial Union, London.....	90,181	37,533	10,479,324	39.0
Concordia, Milwaukee.....	52,024	35,593	4,416,890	68.2
Connecticut, Hartford.....	95,688	76,368	8,278,812	79.8
Continental, New York.....	67,663	40,133	5,624,702	59.3
Cooper, Dayton.....	112,699	54,000	6,912,622	47.9
Dayton, Dayton.....	150,291	68,093	10,812,532	45.3
Delaware, Philadelphia.....	17,602	11,055	2,772,369	61.5
Detroit F. and M., Detroit.....	13,893	7,837	1,491,178	56.4
Dwelling House, Boston.....	35,340	15,210	4,521,040	63.0
Eagle, New York.....	12,863	7,235	1,349,687	51.2
Equitable F. and M., Providence.	14,013	11,376	1,325,972	81.2
Eureka F. and M., Cincinnati.....	117,118	62,202	10,063,495	53.1
Farragut, New York.....	7,430	3,455	524,411	40.5
Fidelity F. and M., Cincinnati.....	28,420	9,714	2,702,590	34.1
Fire Association, Philadelphia.....	135,028	100,728	11,019,493	74.6
Fire Ins. Co. of the Co. of Phila.	11,582	9,947	780,494	25.4
Firemans Fund, San Francisco.....	47,427	36,690	5,131,547	77.2
Firemans, Newark.....	14,873	5,907	1,492,147	39.7
Franklin, Philadelphia.....	28,070	14,409	2,251,613	51.3
German, Freeport.....	99,087	62,763	7,486,087	69.6
German-American, New York.....	124,422	69,859	11,486,096	56.1
German, Wheeling.....	21,452	23,781	1,536,687	76.3
Germania, New York.....	62,069	23,781	6,161,948	38.3
Glad F. and M., Philadelphia.....	22,321	12,513	2,869,060	38.6
Glen Falls, Glen Falls.....	42,621	26,476	4,801,585	62.0
Granite State, Portsmouth.....	21,580	16,011	1,448,520	74.2
Greenwich, New York.....	19,381	22,657	3,090,844	116.9

Columbian, Louisville.....	2,614	778	828,882	29.7	Guardian F. and L., London.....	97,358	74,968	8,947,495	76.4
Commercial Union, London.....	10,826	26,099	463,995	241.0	Hanover, New York.....	58,826	34,264	4,594,974	58.9
Connecticut, Hartford.....	5,434	32,068	963,574	569.4	Hartford, Hartford.....	137,691	102,974	11,367,051	74.7
Continental, New York.....	8,397	40,377	213,867	486.8	Home, New York.....	293,006	204,405	31,693,628	69.7
Fire Association, Philadelphia.....	17,911	37,157	746,474	207.4	Imperial, London.....	125,514	77,735	14,033,460	31.1
Fireman's Fund, San Francisco.....	5,885	32,949	353,961	559.9	Ins. Co. of North America, Phila.....	15,811	10,933	1,174,215	69.1
German-American, New York.....	39,993	45,686	1,572,790	147.4	Ins. Co. of the State of Pa., Phila.....	69,237	89,489	6,066,124	129.2
Greenwich, New York.....	1,649	3,404	106,080	207.5	Lancashire, Manchester.....	41,871	30,797	3,757,219	74.6
Hamburg-Bremen, Hamburg.....	3,196	24,683	134,395	770.4	London, London.....	182,868	87,075	14,514,058	46.8
Hanover, New York.....	4,105	31,397	867,435	784.8	London Assurance Corporation.....	60,468	27,060	5,896,669	48.2
Hartford, Hartford.....	16,348	53,728	1,097,177	828.1	London and Lancashire, Liverpool.....	86,244	54,044	6,393,821	62.6
Home, New York.....	4,933	39,573	320,915	802.3	Manchester, Manchester.....	88,181	51,781	6,109,005	58.7
Ins. Co. of No. Am., Philadelphia.....	15,766	58,974	635,497	374.0	Manuf'rs and Merch'ts, Pittsburgh.....	10,890	7,189	1,025,340	66.3
Lancashire, Manchester.....	5,868	15,618	333,587	264.8	Marine (Limited), London.....	68,738	29,306	9,038,282	42.6
Liv. & Lon. & Globe, Liverpool.....	39,383	43,915	1,577,290	144.5	Mechanics, Philadelphia.....	15,095	9,069	1,187,986	60.2
London & Lancashire, Liverpool.....	13,439	34,156	528,722	254.1	Mercantile F. and M., Boston.....	13,245	4,802	1,282,017	36.2
Manchester, Manchester.....	18,388	26,111	866,700	142.0	Merc'ts and Manuf's, Cincinnati.....	50,638	37,278	4,222,365	73.6
Milwaukee Mechanics, Milwaukee.....	8,265	21,890	364,565	264.1	Mechanics, The, Newark.....	44,702	23,245	4,220,386	51.8
Minneapolis, Minneapolis.....	6,703	11,916	288,614	177.8	Merchants, Providence.....	14,013	11,376	1,325,972	81.2
National, Hartford.....	26,097	204,950	204,950	469.4	Michigan F. and M., Detroit.....	40,477	27,578	3,434,117	68.1
Niagara, New York.....	9,846	40,854	487,159	414.9	Miami Valley, Dayton.....	27,237	13,281	2,735,070	48.7
Northern, London.....	5,743	11,750	220,803	204.6	Milwaukee Mechanics, Milwaukee.....	67,980	60,979	10,082,955	54.9
Norwich Union, Norwich.....	37,905	37,905	777,714	593.7	Mutual, New York.....	47,021	47,021	5,116,399	69.1
Pennsylvania, Philadelphia.....	9,260	38,809	374,740	419.1	National, Cincinnati.....	83,598	43,356	6,593,038	51.9
Phoenix, Brooklyn.....	60,264	811,700	811,700	418.7	National, Hartford.....	148,895	91,618	12,583,622	61.5
Phoenix, Hartford.....	44,905	626,546	626,546	384.9	Newark, Newark.....	14,209	14,106	1,003,827	99.0
Phoenix, London.....	16,868	236,379	236,379	320.5	New Hampshire, Manchester.....	40,745	27,659	3,968,779	67.8
Queen of America, New York.....	90,597	535,679	535,679	730.7	Niagara, New York.....	52,978	52,978	5,999,872	68.8
Royal, Liverpool.....	7,058	27,873	279,933	253.2	North British and Mercantile.....	113,251	55,619	9,367,651	49.1
St. Paul F. and M., St. Paul.....	61,535	77,821	3,926,404	126.4	Northern, London.....	132,127	82,986	10,178,376	62.7
Springfield F. & M., Springfield.....	22,666	29,446	994,312	130.2	Norwich Union, Norwich.....	47,221	18,134	3,585,472	38.4
Traders, Chicago.....	6,314	21,830	258,445	325.7	Northwestern National, Milwaukee.....	39,997	20,368	4,458,537	50.7
Western, Toronto.....	6,549	32,199	279,229	491.7	Ohio, Dayton.....	75,774	33,500	6,643,766	44.0
Totals.....	\$419,620	\$1,219,803	\$21,353,050	290.7	Orient, Hartford.....	28,643	30,486	4,550,490	103.5
OHIO.....					Pacific, New York.....	28,642	17,335	2,534,253	60.5
Atina, Hartford.....	\$108,880	\$108,880	\$17,765,812	54.7	Pennsylvania, Philadelphia.....	55,819	41,300	4,148,528	74.0
Agricultural, Watertown.....	64,886	25,306	6,446,100	39.0	Phoenix, Brooklyn.....	175,800	115,970	13,429,000	65.9
American, Newark.....	25,563	8,896	2,559,093	39.2	Phoenix, London.....	243,548	119,647	26,166,353	49.1
American Central, St. Louis.....	19,027	9,050	1,415,195	47.5	Providence, Providence.....	82,549	44,753	6,204,073	52.2
American, New York.....	67,475	56,422	4,822,610	83.6	Queen Ins. Co. of America, N. Y.....	81,910	16,627	4,284,296	49.9
American, Philadelphia.....	60,078	48,788	5,384,264	81.2	Reliance, Philadelphia.....	10,659	8,963	6,103,066	81.4
Atlas, London.....	35,618	22,490	2,755,745	63.1	Rochester German, Rochester.....	33,185	20,165	1,287,419	84.0
Boylston, Boston.....	6,858	9,274	470,495	125.2	Royal, Liverpool.....	455,438	340,224	2,599,024	60.7
British America, Toronto.....	54,406	36,803	4,133,585	67.6	Scottish Union and Nat'l, Edinburgh.....	127,667	93,628	36,733,317	74.7
British and Foreign Marine, Liv.....	15,522	4,873	2,427,334	31.4	Security, Cincinnati.....	103,331	54,578	10,213,340	73.3
Broadway, New York.....	13,238	10,049	1,222,399	75.8	Security, New Haven.....	17,434	12,710	8,691,963	52.8
								1,844,922	72.8

* Losses paid.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
OHIO—Continued.				
Springfield F. and M., Springfield	\$51,024	\$30,690	\$4,000,312	76.4
Spring Garden, Philadelphia	21,271	17,426	2,680,763	81.9
St. Paul F. and M., St. Paul	37,236	28,408	4,809,993	76.3
Teutonia F. and M., Dayton	61,918	16,194	5,677,098	26.1
Sea Insurance Co., Liverpool	7,542	28,236	214,786	374.4
Sun, London	81,069	68,399	7,994,350	84.3
Traders, Chicago	48,220	27,408	3,149,009	57.0
Union, Philadelphia	33,247	19,989	3,366,840	59.9
Union, Buffalo	5,097	3,003	519,688	58.9
Union, London	9,525	4,504	803,266	47.9
United Firemen, Philadelphia	17,236	17,236	1,432,904	86.1
United States, New York	21,360	17,236	1,154,610	85.5
Washington, Cincinnati	10,973	8,622	1,154,610	85.5
Westchester, New York	28,447	9,372	2,561,276	32.9
Western, New York	63,712	32,737	5,344,560	51.3
Western, Pittsburgh	10,662	5,449	807,947	51.1
Western, Toronto	83,865	59,278	10,179,255	70.7
Totals	\$7,071,329	\$4,420,570	\$621,493,308	62.5
OKLAHOMA TERRITORY.				
Etina, Hartford	\$6,100	\$1,524	\$327,060	24.9
British America, Toronto	754	31	26,865	4.1
Caledonian, Edinburgh	1,711	.....	47,495	.....
Connecticut, Hartford	6,210	1,064	304,500	17.1
Delaware, Philadelphia	709	.....	33,969	.....
Fire Association, Philadelphia	2,597	6	84,495	2
German-American, New York	5,560	2,197	270,595	39.5
Hartford, Hartford	4,441	608	205,609	13.7
Ins. Co. of North America, Phila.	3,234	3,234	109,825	76.8
Liv. and Lon. and Globe, Liv.	6,127	3,496	109,825	57.0
London and Lancashire, Liv.	6,903	3,326	216,691	55.4
Manchester, Manchester	2,964	27	162,671	9
Niagara, New York	4,282	3,985	90,500	93.0
Orient, Hartford	2,558	660	166,357	24.8
Phoenix, Brooklyn	6,771	1,428	128,375	21.1
Scottish Union and Natl., Edinb'g	1,405	.....	294,300	.....
Shawnee, Topeka	8,787	1,942	54,775	22.1
Springfield F. and M., Springfield	8,029	4,176	269,349	52.0
Traders, Chicago	1,336	.....	338,556	.....
			48,010	.....

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
OREGON—Continued.				
State, Salem	†\$124,030	.....	\$4,975,480	.....
Sun, London	32,387	\$11,060	1,548,043	36.9
Thames and Mersey Marine, Eng	21,739	3,832	2,014,844	17.6
Union, London	12,230	6,792	644,799	27.3
Westchester, New York	12,226	9,735	698,306	42.7
Western, Toronto	21,239	3,361	1,157,499	15.8
Totals	\$1,172,717	†\$385,865	\$62,350,849	†32.9
PENNSYLVANIA.				
Etina, Hartford	\$316,332	\$178,635	\$31,098,859	56.4
Agricultural, Watertown	105,137	54,568	10,962,900	51.8
Albany, Albany	13,332	6,535	1,004,115	49.0
Allegheny, Pittsburgh	17,993	18,490	1,567,102	102.7
Allemania, Pittsburgh	97,144	57,435	9,985,133	59.1
American Central, St. Louis	62,434	47,118	5,140,100	75.4
American, Boston	20,602	9,593	2,286,359	46.4
American, New York	90,743	63,961	6,787,058	69.8
American, Newark	42,817	21,005	4,875,446	49.0
American, Philadelphia	300,911	200,940	28,100,877	66.7
Armenia, Pittsburgh	38,334	14,171	3,941,748	36.9
Artisans, Pittsburgh	31,049	17,318	2,593,385	55.7
Atlas, London	25,334	7,477	2,172,919	29.5
Ben Franklin, Allegheny	23,874	8,878	2,622,263	30.9
Birmingham, Pittsburgh	22,723	11,049	2,032,612	48.6
British America, Toronto	112,277	50,691	8,335,991	45.1
British and Foreign Marine, Liv.	160,088	74,773	42,536,094	46.7
Broadway, New York	10,883	4,861	1,207,873	44.6
Buffalo German, Buffalo	25,202	15,023	2,615,001	59.4
Caledonian, Edinburgh	65,792	27,234	5,356,862	41.4
Capital, Concord	30,965	20,036	2,135,516	64.7
Cash, Pittsburgh	8,638	3,235	731,997	37.4
Citizens, New York	46,891	26,862	4,414,536	57.3
Citizens, Pittsburgh	77,674	52,300	7,420,848	67.3
City, Pittsburgh	17,970	5,499	1,948,181	30.8
Columbian, Louisville	26,753	23,695	2,051,627	88.5
Commerce, Albany	8,904	1,541	1,086,958	17.3
Commercial Union, London	162,057	111,476	15,104,304	68.7
Commonwealth, New York	12,811	5,655	1,416,022	44.1

Westchester, New York.....	4,778	9,898	150,736	60.6	Connecticut, Hartford.....	91,436	56,018	7,859,100	62.2
Pennsylvania, Philadelphia.....	3,537	1,575	86,955	44.5	Continental, New York.....	162,369	82,470	15,465,775	50.7
Western Assurance, Toronto.....	2,060	.....	86,001	....	Delaware, Philadelphia.....	159,218	24,424,704	24,424,704	74.1
Totals.....	\$31,030	\$32,178	\$3,539,591	35.3	Dwelling House, Boston.....	46,119	5,315,856	5,315,856	53.9
ETNA, Hartford.....	\$12,639	\$8,187	\$498,072	64.7	Equitable F. and M., Providence.....	20,324	6,499	1,970,865	37.6
Alliance, London.....	13,802	6,925	767,959	50.1	Farragut, New York.....	13,232	6,209	25,095,639	86.9
American, Philadelphia.....	39,057	13,886	1,546,845	35.3	Fire Association, Philadelphia.....	270,091	34,997	3,671,416	74.2
American Central, St. Louis.....	6,546	3,888	243,945	59.4	Fire Association, Philadelphia.....	38,142	91,795	6,078,612	41.6
British and Foreign Marine, Liv.	5,859	562	652,000	9.6	Firemans Fund, San Francisco.....	14,772	15,747	4,351,729	106.6
Caledonian, Edinburgh.....	20,225	5,430	798,268	26.8	Firemens, Baltimore.....	39,277	36,128	4,351,729	92.0
Commercial Union, London.....	41,227	31,206	2,999,252	75.4	Firemens, Newark.....	45,812	33,744	3,064,955	73.6
Connecticut, Hartford.....	6,127	6,127	2,241,876	21.7	Fremens, Chicago.....	10,791	8,106	1,056,624	75.1
Continental, New York.....	7,824	3,146	1,241,876	75.4	Franklin, Philadelphia.....	126,087	67,786	10,633,585	52.9
Fire Association, Philadelphia.....	14,222	6,334	398,720	40.2	General Marine, Dresden.....	15,621	8,263	2,787,980	52.9
German-American, New York.....	19,723	3,178	955,556	44.4	German-American, New York.....	225,449	104,295	27,183,272	46.2
Guardian, London.....	42,436	19,723	3,317,825	46.4	Germania, New York.....	113,506	24,654	3,367,810	60.0
Hamburg-Magdeburg, Hamburg.....	25,568	10,962	1,631,889	42.9	German, Pittsburgh.....	91,667	49,972	13,430,399	44.0
Hamburg-Bremen, Hamburg.....	8,021	566	429,377	70.5	Girard F. and M., Philadelphia.....	108,025	33,980	7,377,716	37.0
Hartford, Hartford.....	27,604	7,048	1,144,277	25.4	Granite State, Portsmouth.....	12,565	58,622	12,741,747	54.2
Home, New York.....	21,555	9,517	1,140,601	44.1	Glens Falls, Glens Falls.....	32,319	18,533	1,065,159	30.2
Home Mutual, San Francisco.....	33,301	8,551	1,173,879	22.7	Greenwich, New York.....	35,964	33,774	3,667,438	57.3
Imperial, London.....	24,841	11,883	1,255,340	25.6	Guardian F. and L., London.....	85,986	62,725	3,667,438	93.9
Lancashire, Manchester.....	10,576	5,010	660,215	47.3	Hamburg-Bremen, Hamburg.....	70,510	65,887	5,423,991	93.4
Lion, London.....	20,954	12,088	1,025,301	57.7	Hanover, New York.....	108,355	62,919	9,268,361	58.0
Liv. and Lon. and Globe, Liv.....	51,004	6,118	2,763,598	12.0	Hartford, Hartford.....	239,010	140,016	21,418,369	58.7
Lon. and Lancashire, Manchester.....	31,488	9,432	1,350,949	29.9	Home, New York.....	404,818	109,957	52,852,570	49.4
London Assurance, London.....	9,196	4,233	528,980	46.0	Humboldt, Allegheny.....	39,718	11,631	3,551,688	29.3
Manchester, Manchester.....	23,272	2,030	974,301	8.7	Imperial, London.....	93,734	57,538	3,448,357	61.6
National, Hartford.....	19,544	16,153	1,183,945	82.6	Ins. Co. of North America, Phila.....	602,609	627,895	70,163,131	94.7
New Zealand, Auckland.....	22,066	8,420	2,226,731	36.7	Ins. Co. of the State of Pa., Phila.....	41,620	22,097	3,278,112	53.1
Northern, London.....	4,233	4,233	528,980	46.0	Jefferson, Philadelphia.....	21,751	8,045	1,959,972	37.0
N. British and Mercantile, London.....	25,526	14,744	985,166	57.7	Kings County, Brooklyn.....	2,533	1,125	285,001	43.5
Northwest F. and M., Portland.....	44,086	17,669	6,905,241	41.9	Lancashire, Manchester.....	154,093	139,568	13,149,388	90.0
Norwich Union, Norwich.....	25,458	9,456	1,306,609	37.0	Liv. and London and Globe, Liv.....	344,802	178,718	29,514,923	51.8
Oakland Home, Oakland.....	27,995	16,224	1,780,669	58.1	Lion, London.....	33,619	33,840	3,997,622	86.9
Orient, Hartford.....	20,120	8,360	1,034,206	41.6	London Assurance, London.....	51,361	64,949	6,963,299	126.4
Palatine, Manchester.....	11,234	6,066	524,080	52.0	London and Lancashire, Liverpool.....	119,757	71,672	7,799,715	59.8
Phoenix, Hartford.....	22,652	5,146	1,173,879	22.7	Lumbermens, Philadelphia.....	52,768	28,963	5,219,461	54.8
Phoenix, London.....	18,714	3,818	1,373,884	54.3	Manchester, Manchester.....	80,024	76,053	5,824,188	95.0
Queen of America, New York.....	34,445	18,714	1,373,884	54.3	Mannheim, Mannheim.....	7,921	738	2,867,540	9.3
Royal, Liverpool.....	12,520	3,818	607,974	30.5	Mrs. and Merchants, Pittsburgh.....	39,871	20,323	3,726,155	50.9
Royal Exchange, London.....	16,188	9,456	1,306,609	37.0	Marine, London.....	5,397	2,238	867,422	41.4
Scottish Union and Natl., Edinb'g.....	20,625	7,334	731,844	16.9	Mechanics, Philadelphia.....	36,548	23,250	3,351,760	63.6
Sea Marine.....	1,233	.....	1,105,070	35.5	Mech. and Traders, New Orleans.....	9,190	9,190	1,455,687	47.5
Springfield F. and M., Springfield.....	19,157	9,949	570,239	51.9	Mercantile F. and M., Boston.....	10,347	3,959	1,073,364	38.2
					Merchants, Newark.....	75,094	29,642	7,323,868	39.5

* Losses are losses paid. † Premiums written. ‡ One home company's figures missing.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
PENNSYLVANIA—Continued.				
Merchants, Providence.....	\$20,473	\$17,333	\$2,816,773	58.8
Michigan F. and M., Detroit.....	16,125	14,483	1,127,235	89.8
Millers National, Chicago.....	1,093	.....	73,500	.....
Milwaukee Mechanics, Milwaukee.....	8,743	4,974	1,015,980	56.9
Monongahela, Pittsburgh.....	17,786	8,407	1,338,461	47.4
Mutual, New York.....	100,362	120,558	7,366,632	120.5
National, Allegheny.....	34,268	16,175	2,966,095	47.1
National, Hartford.....	177,565	79,490	15,916,705	44.7
Newark, Newark.....	14,249	8,301	1,230,887	58.2
New Hampshire, Manchester.....	63,235	28,343	6,184,799	44.8
New York Bowery, New York.....	16,901	13,820	1,570,732	81.7
New York, New York.....	5,415	1,678	565,420	31.0
Niagara, New York.....	125,882	75,647	10,443,759	60.1
N. British and Mercantile, London.....	158,635	86,830	14,435,185	51.6
Northern, London.....	63,145	43,797	1,743,876	69.3
Northern Natl., Milwaukee.....	18,066	9,148	1,743,876	50.6
Norwich Union, Norwich.....	120,233	89,666	10,260,451	74.5
Orient, Hartford.....	136,821	91,412	12,202,580	66.8
Pacific, New York.....	25,197	14,583	2,768,844	58.2
Palatine, Manchester.....	81,204	26,108	7,262,190	32.1
Pennsylvania, Philadelphia.....	231,265	127,436	23,400,000	55.1
Peoples, Pittsburgh.....	61,427	33,867	4,586,289	55.0
Phenix, Brooklyn.....	155,819	71,751	14,876,581	45.6
Phenix, Hartford.....	258,811	134,050	18,968,162	51.8
Phenix, London.....	147,259	76,401	11,931,044	51.9
Pittsburgh, Pittsburgh.....	12,493	12,805	1,678,565	69.5
Providence, Washington, Prov.....	76,147	42,047	5,567,237	55.2
Prussian National, Stettin.....	18,999	5,198	1,650,581	28.4
Queen of America, New York.....	125,977	71,754	12,081,874	57.2
Reading, Reading.....	103,550	57,127	9,648,688	55.1
Reliance Marine, Liverpool.....	27,137	8,763	980,539	32.3
Reliance, Philadelphia.....	49,835	26,964	5,493,144	51.1
Rochester German, Rochester.....	11,610	7,096	1,077,553	61.1
Royal, Liverpool.....	500,444	243,255	41,940,824	48.6
Scottish Union and Nat., Edinb g.....	67,831	63,475	7,093,607	93.5
St. Paul F. and M., St. Paul.....	76,683	64,466	4,719,721	84.1
Security, New Haven.....	24,757	17,778	2,024,499	71.8
Springfield F. and M., Springfield.....	152,347	73,084	10,510,893	47.9
Spring Garden, Philadelphia.....	75,108	37,598	9,383,341	50.0
RHODE ISLAND—Continued.				
German-American, New York.....	\$42,570	\$18,228	\$4,986,941	42.8
Germania, New York.....	4,487	2,168	356,441	48.3
Glens Falls, Glens Falls.....	4,795	3,984	538,787	83.0
Granite State, Portsmouth.....	6,783	5,872	468,450	86.5
Greenwich, New York.....	2,568	3,664	229,256	142.6
Guardian, London.....	8,833	7,419	740,061	84.0
Hamburg-Bremen, Hamburg.....	19,536	16,999	1,655,888	87.0
Hanover, New York.....	9,288	6,110	962,115	65.8
Hartford, Hartford.....	20,646	11,098	2,086,174	53.7
Horne, New York.....	44,148	15,559	4,425,126	35.2
Imperial, London.....	10,374	5,964	854,559	57.5
Ins. Co. of North America, Phila.....	97,680	15,338	2,483,845	55.4
Lancashire, Manchester.....	10,275	16,160	1,048,958	157.3
Lion, London.....	5,633	12,155	508,950	215.7
Liv. and London and Globe, Liv.....	58,846	36,600	5,479,013	62.2
London and Lancashire, London.....	8,609	7,822	798,447	90.8
London Assurance, London.....	6,774	4,055	585,486	59.8
Manchester, Manchester.....	9,330	1,201	1,005,911	13.8
Marine, London.....	3,510	1,465	1,842,588	41.7
Mechanics, Philadelphia.....	3,864	2,992	330,910	77.4
Mercantile F. and M., Boston.....	3,090	6,068	441,993	160.9
Merchants, Newark.....	5,373	4,458	601,221	82.9
Merchants, Providence.....	13,148	4,118	1,434,748	31.3
National, Hartford.....	14,170	5,337	1,454,223	37.6
New Hampshire, Manchester.....	20,607	6,124	2,655,358	29.7
Niagara, New York.....	10,442	5,990	885,971	57.3
North American, Boston.....	3,399	2,216	403,391	65.2
North British and Mercantile, Lon.....	7,946	11,561	749,076	145.5
Northern Assurance, London.....	8,995	15,125	721,669	169.2
Northwestern Nat'l, Milwaukee.....	1,888	1,499	184,047	79.4
Norwich Union, Norwich.....	10,103	7,461	843,403	73.8
Orient, Hartford.....	12,666	10,973	989,431	86.6
Palatine, Manchester.....	2,435	1,093	261,222	42.4
Pennsylvania, Philadelphia.....	14,143	7,700	487,286	41.7
Phenix, Brooklyn.....	23,912	10,999	1,124,605	77.7
Phoenix Assurance, London.....	6,877	3,004	9,866,272	53.3
Phoenix, Hartford.....	18,665	3,004	517,367	43.6
Providence-Washington, Prov.....	62,981	28,464	1,519,928	88.7
			12,828,296	45.2

Sun Insurance Office, London....	115,568	75,265	13,640,420	65.1	Queen of America, New York....	9,973	2,419	1,062,254	24.2
Teutonia, Allegheny.....	57,544	43,350	1,097,737	75.3	Reading, Reading.....	3,551	759	297,401	24.6
Teutonia, New Orleans.....	12,949	6,083	1,097,737	95.2	Relliance, Philadelphia.....	2,531	1,848	399,382	65.3
Transatlantic, Hamburg.....	24,821	19,951	1,463,785	91.2	Rochester German, Rochester....	5,749	6,313	435,831	109.8
Union Society, London.....	31,602	12,286	2,535,991	77.5	Royal, Liverpool.....	2,863	22,507	2,605,585	75.3
Union, Pittsburgh.....	16,041	9,959	2,537,397	38.8	S. Paul F. and M., St. Paul.....	2,863	20,872	276,290	27.3
Union, Philadelphia.....	50,112	27,944	1,400,164	56.4	Scottish Union and Nat'l, Edin'gh	21,401	20,872	2,246,365	130.5
United Firemen's, Philadelphia....	35,164	35,164	5,931,883	55.7	Springfield F. and M., Springfield	17,744	10,834	1,438,733	61.0
United States, New York.....	29,489	18,117	5,971,601	54.1	Sun, London.....	2,199	557	348,040	25.3
United States Lloyds, New York....	32,177	19,096	3,421,022	82.4	Sun Assurance, London.....	9,163	9,163	1,793,245	52.2
Virginia F. and M., Richmond....	12,228	8,106	3,573,823	61.3	Union, Philadelphia.....	2,519	1,667	248,724	70.1
Washington, Cincinnati.....	9,752	14,879	1,288,553	66.3	United Firemen's, Philadelphia....	3,874	4,072	402,130	128.3
Westchester, New York.....	55,435	7,935,027	1,148,548	152.4	United States, New York.....	3,804	1,273	345,976	39.7
Western, Pittsburgh.....	22,620	4,043,970	7,795,027	57.7	Westchester, New York.....	4,073	5	653,594	1.1
Western, Toronto.....	73,332	7,980,499	7,980,499	74.6	Western Assurance, Toronto.....	6,402	8,766	570,717	137.2
Williamsburgh City, Brooklyn....	15,017	2,069,065	2,069,065	78.9	Williamsburgh City, Brooklyn....	1,587	3,539	413,576	47.2
Totals.....	\$10,600,452	\$6,570,435	\$1,019,513,933	61.8	Totals.....	\$944,878	\$611,452	\$103,060,241	64.7
RHODE ISLAND.					Mutual Companies.				
Æna, Hartford.....	\$24,554	\$17,333	\$3,158,743	70.6	Abington, Abington.....	\$1,260	\$464	\$95,085	36.8
Agricultural, Watertown.....	2,411	2,411	308,400	90.4	American, Providence.....	253,144	151,081	27,804,770	59.7
American, Boston.....	2,605	4,504	654,153	84.3	Blackstone, Providence.....	295,164	99,384	35,105,210	33.6
American, Newark.....	15,371	2,706	1,937,832	17.6	Cambridge, Cambridge.....	2,682	800	102,600	20.8
American, New York.....	19,130	8,302	2,187,248	43.4	Dorchester, Boston.....	5,953	1,107	381,475	18.6
American, Philadelphia.....	12,446	4,870	890,775	39.1	Enterprise, Providence.....	261,079	151,728	28,742,793	58.1
Atlas, London.....	5,505	89	511,935	1.6	Firemen's, Providence.....	517,743	133,638	63,111,817	25.8
Boylston, Boston.....	4,572	2,668	490,186	58.3	Fitchburg, Fitchburg.....	9,165	6,286	646,391	68.5
British America, Toronto.....	4,166	4,612	312,397	110.7	Franklin, Providence.....	13,228	2,871	1,360,630	21.7
British and Foreign Marine, Liv.	2,951	1,549,390	1,549,390	61.5	Holyoke, Salem.....	4,002	105	230,650	4.1
Buffalo-German, Buffalo.....	8,749	4,120	1,070,397	47.1	Hope, Providence.....	202,382	56,373	21,407,478	27.8
Caledonian, Edinburgh.....	5,951	6,778	468,744	134.1	Manufacturers, Providence.....	133,852	23,672	17,627,442	17.7
Citizens, New York.....	9,100	4,969	757,722	54.8	Mechanics, Providence.....	99,157	19,054	12,871,938	19.2
Columbian, Louisville.....	1,689	2	294,642	1	Mechanics & Farmers, Worcester	6,539	2,939	488,495	44.9
Commerce, Albany.....	2,770	2,386	271,461	86.1	Merchants, Providence.....	155,300	65,407	17,972,749	42.1
Commercial Union, London.....	12,186	12,186	1,317,304	84.5	Mercantile, Providence.....	91,447	8	8,584,003	....
Connecticut, Hartford.....	13,737	1,660,900	1,660,900	75.2	Pawtucket, Pawtucket.....	48,591	12,183	4,047,445	25.0
Continental, New York.....	3,641	1,873,760	1,873,760	18.3	Providence, Pawtucket.....	39,012	12,344	3,959,150	31.6
Delaware, Philadelphia.....	4,111	4,111	820,634	81.2	Providence, Providence.....	1,084	1,063	73,000	147.8
Dwelling House, Boston.....	842	.....	151,805	....	Rhode Island, Providence.....	23,815	50,910	26,336,260	23.8
Equitable F. and M., Providence....	11,491	2,665,221	2,665,221	62.5	State, Providence.....	674,685	203,117	80,358,075	30.1
Fire Association, Philadelphia....	9,184	769,931	769,931	93.5	Tiverton and Little Compton.....	584	323	107,047	55.3
Fire Association, San Francisco....	9,413	1,055,436	1,055,436	87.4	Traders and Mechanics, Lowell..	4,131	1,088	301,325	26.3
Firemen's, Boston.....	5,701	662,222	662,222	104.6	Union, Providence.....	29,107	3,993	2,618,000	13.7
Firemen's, Newark.....	5,449	4,659	709,940	59.0	What Cheer, Providence.....	295,097	67,968	31,903,012	23.0
First National, Worcester.....	4,461	3,909	357,039	87.6	Totals.....	\$3,358,207	\$1,008,536	\$386,354,770	31.8
Franklin, Philadelphia.....	7,395	4,765	677,777	64.4					

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
SOUTH CAROLINA.				
Aetna, Hartford.....	\$19,729	\$21,397	\$1,826,399	108.4
American, New York.....	10,651	25,814	679,351	242.3
American, Philadelphia.....	24,202	20,101	1,795,539	83.0
Brit. & Foreign Marine, Liverpool.....	3,639	799	1,293,224	20.0
Caledonian, Edinburgh.....	4,633	1,999	173,338	43.1
Commercial Union, London.....	13,768	25,276	787,949	183.3
Connecticut, Hartford.....	4,997	10,679	787,949	216.7
Continental, New York.....	25,628	34,769	1,889,549	135.6
Delaware, Philadelphia.....	6,339	7,324	33,969	115.8
Fire Association, Philadelphia.....	6,874	3,463	418,943	50.4
German-American, New York.....	12,820	6,539	1,072,168	51.0
Guardian, London.....	5,292	4,565	458,844	86.2
Hamburg-Bremen, Hamburg.....	8,324	8,000	471,658	96.3
Hanover, New York.....	7,200	4,097	479,584	56.9
Hartford, Hartford.....	36,975	31,979	3,354,460	86.2
Home, New York.....	41,203	61,925	3,293,685	150.3
Germania, New York.....	11,693	.....	933,485	.....
Greenwich, New York.....	8,574	5,292	594,514	115.5
Guardian, London.....	5,292	4,565	458,844	86.2
Imperial, London.....	7,154	3,660	.....	42.7
Ins. Co. of No. Am., Philadelphia.....	22,545	12,988	2,056,285	57.6
Lancashire, Manchester.....	19,030	10,460	1,575,016	86.5
Lion, London.....	4,031	2,196	322,469	54.5
Liv. & Lon. & Globe, Liverpool.....	83,793	61,724	4,884,612	73.7
London & Lancashire, Liverpool.....	8,602	14,255	597,772	165.7
Manchester, Manchester.....	9,444	10,411	593,095	110.2
Mechs. & Traders, New Orleans.....	4,292	1,688	449,201	39.3
National, Hartford.....	5,608	8,618	441,139	153.6
Niagara, New York.....	6,141	631	401,810	10.2
Northern, London.....	6,071	11,135	517,981	183.3
North Brit. & Mercantile, London.....	20,872	22,470	1,519,300	107.6
Norwich Union, Norwich.....	19,217	11,758	1,258,772	61.2
Orient, Hartford.....	6,628	19,950	504,728	391.0
Palatine, Manchester.....	8,447	4,644	719,988	58.5
Pennsylvania, Philadelphia.....	12,529	9,886	675,954	78.9
Phoenix, Brooklyn.....	16,070	7,839	1,000,643	48.9
Phoenix, Hartford.....	13,770	4,239	995,028	30.8
Phoenix, London.....	20,187	9,142	1,406,983	45.3
Royal, Liverpool.....	28,656	15,139	1,834,568	52.8
SOUTH DAKOTA—Continued.				
State, Des Moines.....	\$12,874	\$3,434	\$700,918	26.7
Traders, Chicago.....	5,123	2,367	222,400	46.2
Western, Toronto.....	8,788	4,005	402,238	45.5
Totals.....	\$442,112	\$203,140	\$2,063,554	45.9
TENNESSEE.				
Aetna, Hartford.....	\$69,378	\$57,894	.....	83.4
American, Philadelphia.....	3,903	3,534	.....	398.0
American, New York.....	28,917	30,063	.....	103.9
American Central, St. Louis.....	3,749	6,393	.....	168.1
Atlanta Home, Atlanta.....	18,247	5,776	.....	31.1
Atlas, London.....	17,328	11,563	.....	66.7
Bluff City, Memphis.....	15,700	7,081	.....	45.1
British and Foreign Marine, Liv.....	7,240	.....	.....	.....
Caledonian, Edinburgh.....	17,585	12,543	.....	70.7
Commercial Union, London.....	27,923	25,224	.....	90.3
Connecticut, Hartford.....	6,590	11,752	.....	180.2
Columbian, Louisville.....	22,652	12,252	.....	54.3
Continental, New York.....	100,783	70,605	.....	70.0
Delaware, Philadelphia.....	14,208	12,972	.....	90.6
Equitable, Nashville.....	97,680	51,794	.....	59.0
Factors, Memphis.....	10,212	7,399	.....	71.7
Farragut, New York.....	6,072	2,809	.....	46.2
Fire Association, Philadelphia.....	22,118	14,152	.....	63.9
Fremans Fund, San Francisco.....	7,628	9,655	.....	126.5
Georgia Home, Columbus.....	53,740	40,939	.....	74.5
German-American, New York.....	125,924	119,253	.....	94.6
Germania, New York.....	19,484	7,548	.....	38.7
Glens Falls, Glens Falls.....	10,856	10,645	.....	98.0
Granite State, Portsmouth.....	3,690	6,200	.....	170.0
Guardian, London.....	11,040	11,040	.....	78.6
Hamburg-Bremen, Hamburg.....	28,221	28,163	.....	100.5
Hartford, Hartford.....	72,780	50,997	.....	70.0
Home, Nashville.....	11,380	9,201	.....	80.0
Home, New York.....	80,560	9,201	.....	52.5
Home Ins. and Trust, Memphis.....	12,596	10,684	.....	84.7
Imperial, London.....	3,530	9,954	.....	281.9
Ins. Co. of N. America, Phila.....	32,935	27,856	.....	84.5

Scot. Union & Nat'l, Edinburg.	8,684	7,800	784,949	90.0	Lancashire, Manchester.....	14,775	21,369	144.6
Southern, New Orleans.....	11,817	11,660	438,059	98.7	Liv. and Lon.	13,444	12,233	90.9
Springfield F. & M., Springfield..	11,992	15,797	801,804	132.7	Liv. and Lon. and Globe, Liv.	53,784	41,513	77.1
Sun, London.....	5,473	5,473	986,220	103.7	Lon. and Lancashire, Manchester	9,900	11,916	120.1
Sun Mutual, New Orleans.....	5,476	319	222,175	9.4	Manchester, Manchester.....	34,334	32,546	94.7
Westchester, New York.....	3,368	376	261,603	11.2	Mfrs. and Builders, New York*	392	708	180.6
Williamsburgh City, Brooklyn....	3,896	3,486	368,596	89.5	Mech. and Traders, New Orleans.	28,011	25,679	91.6
Totals.....	\$659,955	\$607,078	\$53,488,584	97.9	Merchants, Newark.....	3,241	11,741	362.2
SOUTH DAKOTA.					Milwaukee Mechanics, Milwaukee	17,189	15,516	90.2
Ætna, Hartford.....	\$11,841	\$3,237	\$622,538	27.3	Nashville F. and M., Nashville....	20,643	14,454	70.0
British America, Toronto.....	3,706	3,307	155,995	89.2	National, Hartford.....	17,098	17,098	178.9
Caledonian, Edinburg.....	4,755	3,048	232,479	64.1	Niagara, New York.....	9,556	13,189	75.8
Commercial Union, London.....	12,704	10,146	640,735	70.9	New Hampshire, Manchester....	4,461	5,341	119.2
Connecticut, Hartford.....	6,521	1,867	442,221	28.9	N. British and Mercantile, London	44,449	34,423	77.4
Continental, New York.....	20,058	12,412	568,367	61.8	Northern, London*.....	3,166	8,397	265.2
Fire Association, Philadelphia.....	12,356	6,656	561,716	53.8	Northwestern Natl., Milwaukee....	9,711	5,093	51.5
Fireman's Fund, San Francisco....	7,527	4,303	401,930	57.1	Norwich Union, Norwich.....	25,496	17,516	68.7
German-American, New York.....	23,416	10,129	1,230,895	43.2	Orient, Hartford.....	13,956	27,591	197.6
German, Freeport.....	24,588	9,137	1,208,372	37.3	Pennsylvania, Philadelphia.....	19,827	9,510	47.9
Guardian, London.....	1,452	.....	72,350	.....	Phoenix, Hartford.....	87,917	86,416	98.1
Guardian, New York.....	1,717	.....	122,250	.....	Phoenix, London*.....	6,171	14,776	239.4
Hamburg-Bremen, Hamburg.....	3,440	2,238	141,118	65.0	Providence, Washington, Prov.	15,616	7,436	47.6
Hartford, Hartford.....	27,095	12,627	1,446,838	46.6	Queen, New York.....	1,883	2,922	158.8
Home, New York.....	4,598	2,613	306,150	56.8	Royal, Liverpool.....	38,775	40,120	103.4
Ins. Co. of N. America, Phila....	5,861	2,009	787,374	10.7	Scottish Union and Natl., Edinb h	109,736	68,951	62.8
Lancashire, Manchester.....	2,282	2,282	258,050	38.9	Southern, New Orleans.....	30,222	24,444	80.6
Liv. and Lon.	16,125	16,125	788,207	98.1	Springfield F. and M., Springfield	14,265	25,760	180.5
London, London.....	1,676	1,676	788,207	98.1	State, Nashville.....	20,317	14,752	72.6
London and Lancashire, Liv.	1,693	1,693	141,675	66.8	Sun, London.....	32,769	15,641	47.7
Manchester, Manchester.....	16,136	9,180	960,283	20.0	Sun Mutual, New Orleans.....	17,181	13,528	78.7
Milwaukee Mechanics, Milwaukee	5,069	2,366	775,668	56.9	Tenotonia, New Orleans.....	7,643	23,750	310.7
Minnesota, Minneapolis.....	5,069	1,675	215,415	46.6	Transatlantic, Hamburg.....	20,695	13,891	67.1
National, Hartford.....	4,944	1,688	210,782	32.9	Virginia F. and M., Richmond....	14,127	5,979	35.9
Niagara, New York.....	6,751	2,684	254,778	32.9	Westchester, New York.....	30,528	22,560	73.9
N. British and Mercantile, London	11,093	4,353	344,049	39.2	Williamsburgh City, Brooklyn....	23,131	16,622	71.7
Northern, London.....	5,323	4,016	224,911	28.8	Totals.....	\$1,767,033	\$1,465,258	81.9
Northwestern Natl., Milwaukee....	3,220	922	315,825	28.8	TEXAS.			
Norwich Union, Norwich.....	4,067	1,288	186,500	31.7	Ætna, Hartford.....	\$90,277	\$55,612	61.6
Pennsylvania, Philadelphia.....	9,056	3,953	367,391	43.6	Alamo Fire, San Antonio.....	116,668	75,372	64.6
Phoenix, Brooklyn.....	47,410	18,362	2,255,620	38.0	Allemanina, Pittsburgh.....	12,020	8,841	73.5
Phoenix, Hartford.....	4,176	4,176	342,995	40.2	American, New York.....	35,221	35,927	102.0
Phoenix, London.....	5,703	3,075	312,995	53.9	American Central, St. Louis....	31,388	24,669	79.5
Queen, New York.....	12,027	6,303	516,190	52.1	American, Philadelphia.....	35,069	48,087	137.1
Royal, Liverpool.....	9,660	5,079	516,190	52.1	Atlanta Home, Atlanta.....	10,226	16,247	158.8
Springfield F. and M., Springfield	15,757	7,673	737,227	48.7	British America, Toronto.....	19,135	20,286	106.0
St. Paul F. and M., St. Paul.....	25,659	11,094	1,825,675	42.9				

* These companies suspended business in Tennessee July 1, 1898, and the above figures are unofficial returns of premiums received first six months of 1898, and of losses incurred for twelve months of 1898. Several companies that retired from State failed to make requested returns. By a careful estimate these companies received in premiums about \$100,000.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
TEXAS—Continued.				
Caledonian, Edinburgh.....	\$18,454	\$16,140	\$1,016,215	87.4
Continental, Louisville.....	14,583	11,422	1,116,462	77.1
Commercial Union, London.....	64,583	52,571	4,108,385	81.4
Concordia, Milwaukee.....	14,574	8,586	789,450	58.9
Connecticut, Hartford.....	34,667	21,672	1,932,900	66.3
Continental, New York.....	50,361	52,020	2,708,724	103.3
Delaware, Philadelphia.....	36,235	18,681	1,021,881	51.5
Farragut, New York.....	7,433	8,891	368,899	118.8
Fire Association, Philadelphia.....	111,850	74,602	5,462,453	66.7
Firemans Fund, San Francisco.....	65,112	61,997	3,449,572	95.2
Georgia Home, Columbus.....	45,419	35,581	2,790,986	80.0
German, Freeport.....	44,718	50,390	2,623,223	110.2
German-American, New York.....	82,045	70,066	5,093,364	85.4
Greenwich, New Orleans.....	22,629	21,590	934,837	95.4
Guardian F. and L., London.....	29,063	25,766	1,644,627	68.0
Hamburg-Bremen, Hamburg.....	24,033	20,338	1,373,299	122.3
Hanover, New York.....	48,582	45,291	2,307,595	93.2
Hartford, Hartford.....	33,637	37,496	1,851,288	111.5
Home, New Orleans.....	216,301	176,926	11,836,055	82.6
Home, New York.....	118,457	98,354	2,622,300	83.0
Imperial, London.....	71,935	59,301	5,451,258	72.5
Ins. Co. of N. America, Phila.....	34,460	9,790	1,790,926	28.4
Laecashire, Manchester.....	82,595	62,738	4,229,746	76.0
Lion, London.....	88,585	87,049	4,800,773	98.2
Liv. and Lon. and Globe, Liv.....	12,495	13,702	1,156,300	110.5
London Assurance, London.....	185,611	174,929	10,524,028	94.2
London and Lancashire, Liverpool.....	20,975	10,452	1,124,742	49.8
Macon Fire, Macon.....	46,681	27,365	2,402,577	59.3
Manchester, Manchester.....	11,968	10,881	524,535	90.9
Mech. and Traders, New Orleans.....	49,796	45,200	2,207,178	90.8
Merchants, Newark.....	51,944	43,224	5,263,071	83.2
National, Hartford.....	33,489	29,353	2,495,582	87.6
Niagara, New York.....	44,991	33,425	2,467,171	74.0
New Orleans Ins. Ass'n., N. O.....	22,559	14,122	1,171,635	62.6
N. British and Mercantile, London.....	47,441	24,492	1,622,093	51.6
Northern, London.....	113,871	113,487	6,368,635	100.5
Northern Union, Milwaukee.....	35,044	32,028	2,623,624	91.3
Northwestern Union, Norwich.....	43,690	39,329	3,224,125	87.8
Totals.....	50,326	39,039	2,610,258	63.6
UTAH—Continued.				
Phoenix, London.....	\$5,432	\$5,126	\$259,840	94.3
Phoenix, Hartford.....	7,826	7,582	452,986	96.8
Providence-Washington, Prov.....	3,199	4,795	.....	149.9
Prussian National, Stettin.....	3,126	1,086	148,119	94.7
Reading, Reading.....	2,165	33	108,800	1.5
Royal, Liverpool.....	8,066	6,372	446,130	79.0
Scottish Union and Nat'l, Edin'gh.....	6,447	2,050	333,980	31.8
St. Paul F. and M., St. Paul.....	3,715	1,942	199,985	52.2
Union, Philadelphia.....	860	9	57,475	1.0
Westchester, New York.....	7,168	8,906	393,580	124.2
Western, Toronto.....	2,784	1,796	222,700	64.5
Totals.....	\$151,953	\$115,290	\$7,674,453	75.8
VERMONT.				
Atlas, Hartford.....	\$38,279	\$32,512	\$2,976,052	84.9
American, New York.....	8,134	6,967	472,820	85.6
American, Philadelphia.....	10,922	9,393	483,210	86.0
British America, Toronto.....	4,311	1,023	236,083	23.7
Caledonian, Edinburgh.....	4,667	5	255,146	.1
Commercial Union, London.....	25,040	21,870	1,415,917	85.3
Connecticut, Hartford.....	9,315	10,903	624,100	117.0
Continental, New York.....	26,452	17,313	2,019,850	61.4
Fire Association, Philadelphia.....	9,315	13,007	667,120	111.3
First National, Worcester.....	6,540	5,858	460,043	80.5
Granite State, Portsmouth.....	18,235	11,033	1,296,352	60.3
Greenwich, New York.....	197	2	11,150	.9
Guardian F. and L., London.....	10,341	13,301	613,454	128.6
Hartford, Hartford.....	13,296	11,131	1,295,124	83.7
Home, New York.....	25,062	20,357	2,229,971	81.2
Imperial, London.....	5,404	5,543	350,465	102.5
Ins. Co. of North America, Phila.....	39,998	18,410	2,462,032	46.0
Ins. Co. of the State of Pa., Phila.....	4,524	222	250,010	4.8
Lancashire, Manchester.....	7,568	2,360	459,864	39.7
Liv. and London and Globe, Liv.....	15,972	15,054	1,288,969	94.8
Manchester, Manchester.....	13,592	9,118	1,082,859	67.3
Merchants, Providence.....	1,849	3,779	163,115	204.4
National, Hartford.....	9,040	4,086	695,797	59.1
New England, Rutland.....	15,846	11,855	1,221,105	74.8

Oakland Home, Oakland.....	29,281	16,582	1,718,549	57.0	New Hampshire, Manchester.....	15,085	9,788	993,900	64.8
Orient, Hartford.....	67,437	56,652	4,993,669	84.0	Niagara, New York.....	16,222	10,728	857,370	66.1
Palatine, Manchester.....	43,655	56,666	1,750,234	38.8	N. British and Mercantile, Lon.	5,436	583	377,495	10.7
Pennsylvania, Philadelphia.....	41,731	44,583	2,090,011	106.8	Northern, London.....	19,605	17,800	1,297,004	90.8
Phenix, Brooklyn.....	75,387	68,151	4,539,000	87.8	Norwich, London, Norwich.....	6,995	3,997	422,944	56.1
Phenix, Hartford.....	129,881	115,970	6,868,014	89.3	Orient, Hartford.....	13,480	6,520	721,995	48.3
Phenix, London.....	68,890	64,440	3,921,069	93.5	Palatine, Manchester.....	6,924	150	603,947	124.6
Provident-Washington, Prov.....	27,818	18,161	1,229,894	65.2	Pennsylvania, Philadelphia.....	3,271	4,077	109,759	80.2
Prussian National, Sietlin.....	13,847	9,395	711,872	67.8	Phenix, Brooklyn.....	19,219	17,152	1,373,345	65.2
Queen of America, New York.....	73,539	53,764	3,894,160	73.1	Phenix, Hartford.....	34,792	22,677	2,030,046	.....
Royal, Liverpool.....	140,359	114,286	7,799,788	81.4	Phenix, London.....	97	.....	.....	.....
Scottish Union and Natl., Edinb'g	91,945	44,055	4,824,959	48.0	Provident-Washington, Prov.....	2,666	2,549	206,163	95.6
Springfield F. and M., Springfield	59,518	41,096	3,426,660	88.9	Queen of America, New York.....	7,883	27,600	230,115	213.9
Sun, London.....	51,057	41,086	2,822,052	80.4	Royal, Liverpool.....	22,591	27,600	1,201,530	122.2
Sun, San Francisco.....	19,243	24,114	1,245,705	125.3	Rutland, Rutland.....	10,723	.....	779,945	.....
Sun Mutual, New Orleans.....	35,011	41,530	1,866,312	118.6	Springfield F. & M., Springfield	19,417	15,406	1,079,692	79.7
Teutonia, New Orleans.....	17,113	7,608	1,098,243	44.4	Sun, London.....	16,997	20,896	1,730,990	122.9
Traders, Chicago.....	32,441	28,733	1,553,216	89.1	Westchester, New York.....	2,950	2,502	210,950	84.8
United States, New York.....	9,497	18,628	851,109	196.3	Totals.....	\$547,515	\$416,334	\$37,243,588	76.0
Westchester, New York.....	13,625	13,435	748,997	98.6	<i>Mutual Companies.</i>				
Western, Toronto.....	47,159	46,355	1,801,279	98.3	Akington Mutual, Abington.....	\$1,316	\$476	\$92,408	36.1
Williamsburgh City, Brooklyn.....	11,736	9,149	653,968	77.9	Fitchburg Mutual, Fitchburg.....	13,491	10,180	827,697	75.5
Totals.....	\$3,587,107	\$2,952,175	\$18,599,801	82.3	Massachusetts Mutual, Boston.....	2,632	3,043	294,315	115.6
<i>UTAH.</i>					Mutual, New York.....	1,115	.....	71,349	.....
Ætna, Hartford.....	\$9,644	\$7,415	\$535,849	76.9	Mutual, New York.....	6,414	.....	377,310	.....
American, New York.....	1,883	5,102	87,800	271.1	Quincy Mutual, Quincy.....	3,594	2,916	225,318	81.1
Atlas, London.....	2,846	2,002	176,483	101.9	Traders and Mechanics, Lowell.....	5,159	3,233	310,474	62.6
British America, Toronto.....	2,614	1,869	133,985	69.2	Union Mutual, Montpelier.....	29,231	18,333	2,193,140	69.3
Caledonian, Edinburgh.....	5,497	2,238	254,502	41.4	Vermont Mutual, Montpelier.....	153,859	106,749	7,963,406	66.8
Citizens, New York.....	2,143	1,640	111,933	76.5	Totals.....	\$216,811	\$144,930	\$12,355,417	112.6
Delaware, Philadelphia.....	2,322	1,350	150,105	58.1	<i>VIRGINIA.*</i>				
Fire Association, Philadelphia.....	3,926	1,125	211,175	28.6	Ætna, Hartford.....	\$34,222	\$38,555	\$3,329,995	136.9
Franklin, Philadelphia.....	1,725	2,712	70,025	157.2	Agricultural, Watertown.....	18,481	25,312	1,766,200	87.6
Girard F. and M., Philadelphia.....	1,416	1,526	80,981	107.7	Alexandria, Alexandria.....	6,182	5,420	1,003,252	172.8
Greenwich, New York.....	1,859	1,099	136,941	59.1	American, Baltimore.....	541	935	40,012	119.8
Guardian, London.....	8,846	4,771	223,867	76.5	American, New York.....	26,383	31,626	1,482,599	99.4
Hanover, New York.....	4,286	3,280	660,367	93.6	British America, Toronto.....	8,953	8,899	621,868	99.4
Hartford, Hartford.....	13,475	5,879	452,980	46.8	Caledonian, Edinburgh.....	12,294	12,072	758,677	107.8
Home, New York.....	7,826	7,582	285,385	57.6	Citizens, New York.....	11,446	12,343	691,590	66.7
Lancashire, Manchester.....	5,763	3,320	144,217	211.5	Commonwealth, Winchester.....	59,021	39,377	3,789,833	66.7
Merchants, Newark.....	1,944	4,113	341,086	56.9	Connecticut, Hartford.....	106	17,688	1,371,000	95.9
National, Hartford.....	6,515	3,707	299,611	46.9	Continental, New York.....	31,693	21,035	2,213,141	66.5
Niagara, New York.....	4,534	2,127	328,672	26.2	Delaware, Philadelphia.....	15,995	18,101	915,471	113.6
North British and Mercantile, Lon	5,811	1,524	446,130	79.0					
Norwich Union, Norwich.....	8,066	4,002	.....	97.2					
Pennsylvania, Philadelphia.....	4,114	.....	.....	.....		

* From The Weekly Underwriter. Losses are losses paid.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	to Premiums, of Losses
<i>VIRGINIA*—Continued.</i>				
Farmers & Mechanics, Alexandria	\$4,262	\$3,857	\$243,500	90.4
Fire Association, Philadelphia	25,752	22,539	1,670,901	87.5
First National, Fredericksburg	.....	.....	25,000	.....
Georgia Home, Columbus	42,502	15,887	3,743,374	53.0
German-American, New York	28,365	31,088	2,345,997	109.6
German, Baltimore	6,855	3,921	512,715	57.2
Germania, New York	7,214	26	533,215	4
Glens Falls, Glens Falls	13,978	6,661	1,061,140	50.1
Greenwich, New York	12,052	3,623	951,635	30.0
Guardian, London	12,958	9,585	1,024,377	64.0
Hamburg-Bremen, Hamburg	54,952	51,875	3,371,824	94.4
Hanover, New York	22,853	24,687	1,383,181	107.8
Hartford, Hartford	49,368	33,344	4,105,236	67.6
Home, New York	61,511	46,200	5,164,388	75.2
Imperial, London	20,102	21,636	1,335,385	107.6
Insurance Co. of North America	37,661	50,850	2,602,026	135.0
Lancashire, Manchester	15,773	1,232	1,227,182	7.8
Lafayette, New Orleans	.....	.....	1,500	.....
Lion, London	18,488	20,958	1,737,558	113.3
Liv. & Globe, Liverpool	106,722	71,776	8,581,787	67.2
London Assur. Corpor., London	13,048	18,668	715,170	143.0
London & Lancashire, Liverpool	33,354	27,994	2,334,418	83.8
Monongahela, Pittsburgh	82	.....	2,500	.....
Mount Vernon, Alexandria	4,699	2,662	683,168	56.6
Mount Holly, Mount Holly	30	.....	1,000	.....
Mutual Assur. Society, Richmond	35,994	25,927	11,250,000	72.1
National, Baltimore	12,945	5,977	1,145,048	46.1
National, Hartford	22,154	14,282	1,448,000	64.4
Niagara, New York	18,866	13,193	1,136,546	60.9
North British and Mer., London	32,549	23,716	2,331,502	72.8
Northern, London	22,335	20,187	1,986,531	90.4
Norfolk F. & M., Norfolk	2,330	415	112,250	17.8
Norwich Union, Norwich	28,322	27,199	1,813,510	95.8
Orient, Hartford	20,844	13,952	1,716,460	66.9
Pennsylvania, Philadelphia	14,599	16,317	904,014	111.2
Petersburg Savings & Ins., Va.	35,212	18,984	2,389,379	53.9
Phoenix, Brooklyn	42,022	38,731	2,882,473	90.2
Phoenix, London	35,813	47,670	2,164,317	133.1
Planters, Alexandria	500	.....	750	.....
<i>WASHINGTON—Continued.</i>				
Scottish Union and Nat'l, Edinburgh	\$24,194	\$9,346	\$977,955	38.6
St. Paul F. and M., St. Paul	4,816	2,906	276,215	60.3
Westchester, New York	22,560	10,221	2,236,886	45.9
Western, Toronto	12,725	2,574	389,665	20.2
Totals	\$532,375	\$331,657	\$23,173,108	60.0
<i>WEST VIRGINIA.</i>				
Et'na, Hartford	\$10,307	\$20,202	\$214,645	106.8
Agricultural, Watertown	4,625	3,202	441,700	69.2
American, Baltimore	125	.....	7,356	.....
American, Philadelphia	2,936	9,213	516,117	313.7
British America, Toronto	4,467	4,934	372,294	110.4
Caledonian, Edinburgh	3,186	.....	.....	.....
Citizens, New York	2,597	522	208,105	20.1
Columbian, Louisville	8,641	691	609,733	8.1
Commercial Union, London	6,721	4,765	933,449	55.1
Continental, New York	3,315	11,830	575,541	176.0
Cooper, Dayton	1,293	1,607	288,252	43.4
Equitable F. and M., Providence	19,500	1,062	133,268	82.2
Fire and Marine, Wheeling	11,552	7,562	2,072,270	38.8
Fire Association, Philadelphia	5,429	11,552	416,613	212.7
Fremans Fund, San Francisco	3,459	3,332	284,206	96.3
Franklin, Philadelphia	2,927	2,085	264,909	71.2
Georgia Home, Columbus	423	.....	28,491	.....
German, Wheeling	28,136	11,222	2,310,023	39.9
German-American, New York	2,722	4,957	318,573	182.0
German-American, Pittsburgh	3,921	20	260,663	7
Germania, New York	4,446	848	408,628	19.0
Greenwich, New York	832	.....	89,993	.....
Guardian, London	2,620	1,755	210,941	67.0
Hamburg-Bremen, Hamburg	9,989	7,012	711,428	70.2
Hanover, New York	5,194	1,044	416,210	20.1
Hartford, Hartford	8,505	3,599	734,512	41.5
Home, New York	11,921	5,230	1,203,145	43.8
Imperial, London	5,924	7,061	414,700	110.2
Ins. Co. of No. Am., Philadelphia	8,004	3,006	428,046	90.0
Lancashire, Manchester	9,058	9,963	726,583	103.1
Lion, London	3,828	1,198	968,204	31.2

Portsmouth, Portsmouth.....	12,101	4,888	1,033,436	40.4	Liv. & Lond. & Globe, Liverpool.....	11,966	4,863	787,533	43.0
Queen, New York.....	38,159	99,771	2,433,861	104.4	London Assurance Corp., London.....	594	.....	48,800	87.0
Richmond Mutual, Richmond.....	9,444	.....	156,580	.....	London & Lancashire, Liverpool.....	4,497	3,913	344,449	59.3
Rochester German, Rochester.....	6,364	6,020	440,409	97.7	Manchester, Manchester.....	8,666	1,062	133,808	82.2
Royal, Liverpool.....	57,979	49,466	4,624,354	74.9	Merchants, Providence.....	1,923	.....	1,000	.....
Scottish Union & Nat., Edinburgh.....	37,029	31,355	4,274,355	84.6	Mt. Holly, New Jersey.....	95	.....	.....	.....
Shenandoah Valley, Winchester.....	152	.....	9,900	.....	Niagara, New York.....	4,902	.....	.....	.....
Sun, London.....	20,390	31,092	1,640,210	153.6	North Brit. & Mercantile, London.....	5,990	5,990	302,333	110.2
United States, New York.....	7,947	2,704	614,368	34.0	Northern, London.....	8,838	.....	382,352	27.1
Virginia F. & M., Richmond.....	178,363	193,754	11,819,196	108.6	Norwich Union, Norwich.....	3,819	5,369	285,105	141.1
Virginia State, Richmond.....	86,543	69,430	3,123,765	73.3	Pennsylvania, Philadelphia.....	4,663	.....	394,959	105.8
Westchester, New York.....	13,742	5,296	944,953	38.5	Phoenix, Brooklyn.....	9,411	5,186	720,000	55.1
Western, Toronto.....	28,810	22,248	1,647,532	77.2	Phoenix, Hartford.....	15,018	14,835	1,060,853	80.8
Williamsburgh City, Brooklyn.....	3,068	5,299	245,900	172.7	Phoenix, London.....	19,714	15,823	1,479,480	88.8
Totals.....	\$1,656,051	\$1,416,464	\$127,689,387	85.5	Providence-Washington, Provid.....	18,788	13,593	1,062,785	71.9
WASHINGTON.					Prussian National, Sietlin.....	483	.....	30,650	.....
Atna, Hartford.....	\$26,668	\$14,804	\$1,053,600	55.5	Queen, New York.....	4,106	9,804	409,678	241.0
American Central, St. Louis.....	14,793	10,660	.....	72.5	Reading, Reading.....	3,590	700	393,825	19.2
American, New York.....	2,383	3,853	107,436	161.7	Reinsurance Marine, Liverpool.....	466	.....	59,497	20.2
Atlas, London.....	12,277	3,610	516,433	29.4	Royal, Liverpool.....	14,384	20,222	1,164,517	140.5
Baldwin, Edinburgh.....	4,802	2,670	191,110	55.6	St. Paul F. & M., St. Paul.....	2,788	2,559	265,493	91.7
Calcedonian, Edinburgh.....	19,559	14,750	896,196	75.4	Scottish Union & Nat'l, Edinburgh.....	23,937	19,295	2,311,900	86.6
Citizens, New York.....	4,069	2,376	161,802	58.4	Security, New Haven.....	2,287	81	178,925	3.5
Delaware, Philadelphia.....	5,746	2,402	272,241	41.4	Sun, London.....	4,594	5,284	468,225	116.8
Farragut, New York.....	2,145	1,592	71,390	73.2	Teutonia, Dayton.....	1,805	1,404	232,791	54.7
Fire Association, Philadelphia.....	15,057	12,801	627,475	83.7	United States, New York.....	2,563	1,404	158,125	35.8
Franklin, Philadelphia.....	7,028	3,801	353,999	29.0	Virginia F. and M., Richmond.....	22,583	8,408	1,584,773	37.2
Girard F. and M., Philadelphia.....	2,602	756	109,650	29.0	Westchester, New York.....	3,499	6,753	300,074	291.8
Greenwich, New York.....	3,739	1,240	262,500	33.1	Western, Toronto.....	5,384	9,479	351,197	176.0
Guardian, London.....	18,845	7,214	.....	38.3	Williamsburgh City, Brooklyn.....	953	457	106,735	48.0
Hanover, New York.....	30,499	4,753	323,605	58.4	Totals.....	\$402,893	\$308,195	\$33,050,603	76.5
Hartford, Hartford.....	27,933	27,933	1,526,393	91.5	WISCONSIN.				
Horne, New York.....	18,316	10,073	1,840,758	51.9	Atna, Hartford.....	\$107,498	\$56,009	\$6,561,219	52.1
Lancashire, Manchester.....	23,950	10,073	993,864	42.2	Agricultural, Watertown.....	12,446	5,267	1,089,300	42.3
Merchants, Newark.....	2,386	3,999	105,358	138.6	Allemania, Pittsburgh.....	8,866	4,853	730,177	55.1
National, Hartford.....	34,007	19,431	1,186,797	57.1	American, Boston.....	9,703	4,850	730,453	49.9
Niagara, New York.....	18,153	20,979	630,632	115.5	American, Newark.....	16,781	8,227	1,451,413	49.0
North British and Mercantile, Lon.....	35,994	30,353	1,670,506	34.3	American, New York.....	11,674	27,336	1,995,795	65.6
Norwich Union, Norwich.....	30,231	17,052	1,284,581	56.4	American, Philadelphia.....	88,138	58,698	5,641,412	66.6
Pennsylvania, Philadelphia.....	12,991	3,717	.....	30.0	American Central, St. Louis.....	22,779	21,040	1,244,581	92.2
Phoenix, London.....	21,218	13,822	798,084	65.1	Atlas, London.....	21,689	6,887	1,402,210	31.7
Phoenix, Hartford.....	18,330	18,330	1,846,758	81.3	Boylston, Boston.....	17,902	8,675	1,032,064	48.4
Providence-Washington, Prov.....	9,079	7,385	.....	52.0	British American, Toronto.....	51,807	19,368	2,327,649	37.4
Prussian National, Sietlin.....	13,670	9,128	818,978	66.7	Broadway, New York.....	4,502	5,607	430,540	124.5
Reading, Reading.....	8,269	2,669	334,880	32.3	Buffalo German, Buffalo.....	21,359	7,412	1,621,460	34.7
Royal, Liverpool.....	30,231	17,052	1,284,581	56.4	Calcedonian, Edinburgh.....	35,434	10,984	1,789,917	30.8

* Losses are losses paid.

FIRE INSURANCE BY STATES—Continued.

NAME OF COMPANY.	Premiums Received.	Losses Incurred.	Risks Written and Renewed.	Ratio of Losses to Premiums.
WISCONSIN—Continued.				
Capital, Concord.....	\$18,044	\$11,300	\$1,106,988	62.6
Columbian, Louisville.....	19,350	20,423	1,721,403	105.5
Commerce, Albany.....	3,394	2,862	455,419	84.3
Commercial Union, London.....	98,149	56,903	7,080,881	58.0
Commonwealth, New York.....	10,615	10,154	1,120,480	95.6
Concordia, Milwaukee.....	99,955	53,693	7,624,893	53.7
Continental, Hartford.....	50,198	18,870	3,599,184	37.6
Delaware, Philadelphia.....	47,593	23,185	2,769,302	48.7
Detroit F. and M.....	15,453	17,081	1,077,050	110.5
Dwelling House, Boston.....	20,426	10,319	1,748,517	50.5
Equitable F. and M., Providence.....	10,288	4,700	1,076,755	45.7
Farmers, York.....	8,429	3,181	616,934	37.7
Fire Association, Philadelphia.....	15,951	10,791	890,517	67.6
Firemans Fund, San Francisco.....	68,819	68,548	4,847,068	69.3
Firemens, Newark.....	46,787	25,972	3,300,945	63.6
Franklin, Philadelphia.....	8,858	6,996	858,180	28.9
German, Freeport.....	13,726	5,967	880,530	43.4
German, Peoria.....	104,986	53,256	6,799,434	50.7
German, Pittsburg.....	10,094	9,051	54,962	89.7
German-American, New York.....	7,991	5,689	497,662	71.4
Germania, N. Y.....	94,754	67,243	6,015,904	70.9
Glens Falls, Glens Falls.....	3,651	23,017	1,983,623	70.4
Grand Rapids, Grand Rapids.....	15,808	7,353	1,223,385	46.5
Granite State, Portsmouth.....	14,355	7,508	1,343,043	52.9
Greenwich, New York.....	18,435	6,488	1,120,590	35.2
Guardian, Bremen.....	15,019	8,157	810,602	52.2
Hamburg-Bremen, Hamburg.....	19,844	9,872	1,316,967	49.7
Hartford.....	12,595	12,595	1,074,497	66.9
Hanover, New York.....	27,916	27,916	2,042,864	71.5
Home, New York.....	39,041	74,602	8,364,806	57.8
Imperial, London.....	122,017	20,772	2,150,140	59.8
Ins. Co. of North America, Phila.....	34,706	77,984	10,104,300	55.2
Ins. Co. State of Pa., Philadelphia.....	131,114	13,326	1,508,453	42.8
Lancashire, Manchester.....	120,680	74,476	6,874,300	61.7
Lion, London.....	8,061	8,061	958,206	54.3
Liv. and London and Globe, Liv.....	60,835	36,676	3,822,700	52.5
London Assurance, London.....	16,872	14,934	1,379,772	88.5
	116,184	58,459	6,846,572	50.3
	45,872	23,471	3,355,837	51.1
WISCONSIN—Continued.				
Westchester, New York.....	\$43,518	\$25,102	\$3,100,779	57.7
Western, Toronto.....	150,125	81,318	11,345,366	54.1
Williamsburgh City, Brooklyn.....	12,898	3,585	1,036,183	27.8
Totals	\$4,442,520	\$2,435,908	\$285,164,371	54.8
WYOMING.				
American Central, St. Louis.....	\$1,337	\$50	\$86,375	3.7
Atlas, London.....	950	51,505	159,050	5
Atlas, Hartford.....	3,407	19	62,975	52.8
Atlantic, New York.....	1,304	689	170,025	120.8
Alliance, London.....	2,507	3,254	47,146	129.2
British America, Toronto.....	953	1,232	148,096	145.9
Continental, New York.....	3,794	5,536	74,134	218.9
Caledonian, Edinburgh.....	1,526	3,340	152,990	99.8
Commercial Union, London.....	3,369	1,004	90,670	29.8
Connecticut, Hartford.....	1,227	1,156	119,433	60.5
Fire Association, Philadelphia.....	2,318	1,404	119,433	60.5
Firemans Fund, San Francisco.....	10,972	7,778	536,406	70.9
German-American, New York.....	2,984	53	170,080	1.8
Hartford, Hartford.....	3,148	1,517	172,329	48.2
Home, New York.....	3,009	111	224,888	3.7
Hanover, New York.....	675	81	39,467	12.0
Home Mutual, San Francisco.....	2,435	3,473	167,538	142.6
Ins. Co. of North America, Phila.....	5,622	50	255,577	76.6
Imperial, London.....	2,784	2,135	123,746	61.4
London and Lancashire, Liv.....	3,595	2,209	178,322	18.5
Liv. and Lon. and Globe, Liv.....	5,139	955	113,150	1.6
Lancashire, Manchester.....	2,278	37	118,856	102.4
Lion, London.....	2,691	2,755	52,540	13.0
Manchester, Manchester.....	1,406	183	61,751	8
Northern, London.....	1,674	14	118,718	.6
Niagara, New York.....	2,919	17	120,335	189.3
N. British and Mercantile, London.....	4,085	7,618	219,700	58.3
Norwich Union, Norwich.....	2,836	1,654	230,048	64.9
Original, Hartford.....	5,521	3,586	21,850	122.4
National, Hartford.....	445	545	135,749	.6
Phoenix, Hartford.....	1,937	12	140,498	7.9
Pennsylvania, Philadelphia.....	3,231	255	135,410	35.7
Providence-Washington, Prov.....	2,854	1,020		

Lon. and Lancashire, Liverpool.....	72,857	47,266	3,468,599	64.8	Palatine, Manchester.....	1,900	675	96,450	34.2
Manchester, Liverpool.....	72,587	42,180	4,411,394	58.1	Prussian National, Sietun.....	1,030	666	56,085	34.6
Mannheim.....	1,163	477	586,765	41.6	Phoenix, Brooklyn.....	4,367	2,576	127,300	59.0
Mfrs. and Merchants, Pittsburgh.....	8,900	3,887	612,904	44.0	Phoenix, London.....	4,236	6,173	211,376	130.8
Mechanics Philadelphia.....	11,782	7,795	687,651	65.9	Queen, New York.....	2,079	1,410	89,128	67.8
Mercantile F. and M., Boston.....	9,021	4,554	672,659	60.5	Royal, Liverpool.....	3,092	976	157,088	31.5
Merchants, Newark.....	22,181	15,477	1,661,666	69.8	St. Paul F. and M., St. Paul.....	698	12	30,400	1.9
Mechanics, Providence.....	8,499	3,181	616,014	37.7	Sun Insurance Office, London.....	2,566	2,124	93,476	84.7
Michigan F. and M., Detroit.....	34,730	15,543	2,485,159	44.7	Springfield F. and M., Springfield.....	2,935	1,651	158,308	56.2
Milwaukee Mechanics Milwaukee.....	163,516	61,613	13,212,029	37.7	Sun, San Francisco.....	1,404	720	108,512	51.3
Minnesota, Minneapolis.....	15,223	5,973	775,166	39.2	Scottish Union and Natl., Edinb'g.....	2,440	1,019	127,228	41.8
Mutual, New York.....	47,815	362	2,544,110	8	Transatlantic, Hamburg.....	1,185	7	61,590	.6
National, Hartford.....	54,607	40,989	3,429,054	75.1	Traders, Chicago.....	3,422	322	145,920	10.4
Newark, Newark.....	5,982	5,982	445,296	79.6	Western Assurance, Toronto.....	1,449	554	115,995	38.2
New Hampshire, Manchester.....	25,837	10,344	2,030,082	40.0	Totals.....	\$127,872	\$72,627	\$6,412,212	56.8
Niagara, New York.....	58,422	35,270	3,072,142	60.3	DISTRICT OF COLUMBIA.				
Northern, London.....	38,455	13,971	1,690,585	36.3	Supplemental Report.				
North British and Mercantile, Lon.....	103,865	56,038	6,568,082	53.9	Albany, Albany.....	\$1,130	*\$745	\$127,020	65.3
Northwestern Natl., Milwaukee.....	84,978	50,287	7,758,028	59.1	American, Boston.....	139	.....	26,900	.....
Norwich Union, Norwich.....	37,670	13,674	1,886,590	36.0	Atlas, Boston.....	2,778	.....	438,431	.....
Orient, Hartford.....	38,953	8,953	3,204,876	84.3	Boylston, Boston.....	965	.....	123,566	.....
Pacific, New York.....	10,004	5,005	874,784	50.0	Corcoran, Washington.....	15,822	*5,407	3,264,290	34.1
Palatine, Manchester.....	29,045	8,873	1,561,638	30.5	Farmers, York.....	7,488	*5,094	705,437	68.0
Pennsylvania, Philadelphia.....	62,690	41,098	3,199,321	65.6	Firemen, Baltimore.....	531	.....	103,050	.....
Phoenix, Brooklyn.....	117,730	117,730	11,024,100	61.0	Firemans Fund, San Francisco.....	703	*1,676	94,195	238.4
Phoenix, London.....	31,586	31,586	3,217,089	51.1	Glens Falls, Glens Falls.....	4,119	*2,483	58,026	60.2
Providence-Washington, Prov.....	35,097	19,585	2,779,853	55.9	Hamburg-Bremen, Hamburg.....	3,398	*2,450	628,370	72.1
Prussian National, Sietun.....	21,659	6,939	1,230,397	27.8	Home, Baltimore.....	2,119	*670	404,304	31.6
Queen of America, New York.....	37,059	37,059	3,741,405	51.3	Imperial, London.....	1,979	*397	311,700	20.0
Reading, Reading.....	6,580	3,756	511,864	57.0	Ins. Co. North America, Phila.....	2,900	*7,350	593,860	253.4
Reliance, Philadelphia.....	4,220	4,220	411,477	108.3	Lon. and Lancashire, Liverpool.....	6,366	*4,911	936,705	77.1
Rochester German, Rochester.....	25,169	11,003	1,555,880	43.7	Manchester, England.....	4,003	*1,811	682,108	45.2
Rockford, Rockford.....	67,280	43,207	4,208,174	61.3	Mercantile Fire and Mar., Boston.....	6,185	*5,120	848,420	82.8
Royal, Liverpool.....	88,003	44,022	4,966,009	50.0	Mt. Holly New Jersey.....	442	.....	101,950	.....
Rugers, New York.....	4,457	5,744	474,685	128.9	National Union, Washington.....	25	.....	2,500	.....
Scottish Union and Natl., Edinb'g.....	45,856	14,581	3,257,100	31.8	Northern, London.....	18,216	*9,722	3,470,021	53.3
Security, New Haven.....	24,016	13,332	1,954,754	55.5	Northwestern Nat'l, Milwaukee.....	2,394	*309	403,969	12.9
Springfield F. and M., Springfield.....	61,833	38,063	3,209,932	61.5	Orient, Hartford.....	5,541	*551	999,980	19.9
Spring Garden, Philadelphia.....	9,601	4,923	855,510	50.8	Queen, Brooklyn.....	2,795	*1,405	345,678	59.3
St. Paul F. and M., St. Paul.....	41,414	18,617	2,857,542	44.9	Queen, New York.....	2,370	*1,405	345,678	59.3
Sun, London.....	89,820	40,898	4,516,220	45.5	Rockingford Fire and Marine.....	3,492	*4,259	581,863	121.9
Tenonia, Allegheny.....	78	.....	.....	.....	Springfield F. and Marine.....	886	*385	141,550	43.4
Traders, Chicago.....	30,738	2,605,942	1,061,115	54.6	United States, N. Y.....	2,074	*1,908	272,221	92.0
Transatlantic, Hamburg.....	7,132	1,061,115	1,061,115	48.7	Williamsburgh City, Brooklyn.....	225	*801	71,950	.....
Union, London.....	1,202	586,833	840,355	10.8	Totals (all companies).....	\$368,841	\$162,798	\$54,479,406	44.1
Union, Philadelphia.....	6,093	840,355	840,355	54.6					
United Firemen, Philadelphia.....	7,070	423,572	423,572	99.0					
United States, New York.....	4,662	710,504	710,504	55.5					

* Losses paid.

RECAPITULATION OF FIRE PREMIUMS AND LOSSES BY STATES.

The following tabulation is a comprehensive exhibit of the premiums and losses of the different fire and fire-marine insurance companies operating in the various States and Territories of the United States and the Dominion of Canada. The comparison of the loss experience in the various parts of America in 1885, 1890 and 1893, together with the totals for the past nine years, will be studied with interest by fire underwriters :

STATES.	Year.	Premiums.	Losses.	Ratio of Premiums to Losses	STATES.	Year.	Premiums.	Losses.	Ratio of Premiums to Losses
Alabama.....	1893	\$1,166,433	\$454,577	38.9	Illinois.....	1893	\$13,488,238	\$7,900,817	58.5
	1890	982,889	473,648	48.2		1890	11,228,390	4,140,592	36.9
	1885	612,528	250,436	40.7		1885	8,158,539	4,539,381	55.6
Totals (9 years).....		\$8,017,253	\$3,737,769	46.6	Totals (9 years).....		\$94,837,233	\$43,899,042	46.2
Alaska.....	1893	\$46,830	\$3,330	7.0	Indiana.....	1893	\$3,483,752	\$2,139,657	61.4
	1890	26,212	3,198	12.2		1890	1,414,810	504	50.4
	1889	69,577	38,241	54.9		1885	2,497,390	1,604,011	66.1
Totals (all business).....		\$172,699	\$48,282	27.9	Totals (9 years).....		\$93,221,649	\$13,611,786	58.6
Arizona.....	1893	\$110,043	\$56,275	51.1	Indian Territory.....	1893	\$36,519	\$13,599	37.2
	1890	44,532	10,822	24.3		1890	10,150	21.9	21.9
	1885	53,598	77,942	145.4		1889	130,836	89,230	60.6
Totals (9 years).....		\$496,173	\$301,910	60.8	Totals (all business).....		\$331,005	\$167,595	50.6
Arkansas.....	1893	\$641,681	\$388,608	60.5	Iowa.....	1893	\$4,255,866	\$2,427,397	57.0
	1890	671,571	261,376	38.9		1890	3,407,335	1,543,524	45.3
	1885	440,798	316,895	70.5		1885	3,005,130	1,180,977	39.3
Totals (9 years).....		\$5,298,942	\$3,562,900	67.2	Totals (9 years).....		\$90,957,496	\$13,988,795	45.2
California.....	1893	\$6,780,453	\$2,667,160	39.3	Kansas.....	1893	\$1,932,184	\$1,047,486	54.2
	1890	6,393,324	2,753,396	43.6		1890	1,733,987	959,473	55.3
	1885	4,541,268	2,033,215	44.8		1885	1,998,101	760,120	38.1
Totals (9 years).....		\$55,137,008	\$33,295,869	42.2	Totals (9 years).....		\$18,090,453	\$8,897,166	49.3
Canada.....	1893	\$6,678,923	\$4,802,622	71.9	Kentucky.....	1893	\$2,775,933	\$2,395,015	86.2
	1890	4,575,337	2,566,085	56.1		1890	1,893,622	1,893,333	73.9
	1885	5,016,132	2,837,850	57.6		1885	1,904,013	1,106,506	58.1
Totals (9 years).....		\$50,256,420	\$30,521,856	60.7	Totals (9 years).....		\$21,090,794	\$14,771,496	70.0

Colorado.....	1803 1800 1885	\$1,461,779 1,551,959 744,974	\$930,601 505,541 227,157	56.8 36.5 30.5	Louisiana.....	1803 1800 1885	\$1,003,570 1,300,102 4,085,732	\$662,525 849,671 2,435,560	35.8 62.5 51.9
Totals (9 years).....		\$11,222,891	\$4,729,144	42.1	Totals (9 years).....		\$21,543,255	\$11,693,930	54.3
Connecticut.....	1803 1800 1885	\$2,367,167 2,035,132 1,822,364	\$1,213,829 985,535 1,043,120	51.3 48.4 57.2	Maine.....	1803 1800 1885	\$1,779,921 1,581,125 1,185,262	\$1,136,923 822,051 667,082	69.9 56.4 56.3
Totals (9 years).....		\$18,020,009	\$8,706,010	48.3	Totals (9 years).....		\$12,489,590	\$7,655,549	61.3
Dakota *.....	1885	\$1,155,955	\$539,025	32.2	Maryland.....	1803 1800 1885	\$1,022,626 1,773,497 1,436,331	\$1,338,506 1,000,794 721,420	69.6 56.4 50.2
Totals (4 years) 1885-1888 inc.		\$4,621,443	\$1,913,424	41.4	Totals (9 years).....		\$15,345,691	\$10,471,845	68.2
Delaware.....	1803 1800 1885	\$265,073 232,350 200,000	\$112,330 143,935 100,000	42.4 62.8 50.0	Massachusetts.....	1803 1800 1885	\$12,607,205 9,593,172 5,522,398	\$9,891,412 4,089,678 2,477,514	78.4 42.6 44.4
Totals (9 years).....		\$1,861,426	\$1,237,493	66.5	Totals (9 years).....		\$76,941,622	\$46,037,054	59.8
District of Columbia.....	1803 1800 1885	\$368,841 143,239 105,781	\$162,798 83,616 116,736	44.1 58.3 70.4	Michigan.....	1803 1800 1885	\$4,683,814 4,059,773 3,290,460	\$3,370,767 2,485,464 1,984,107	72.1 60.0 63.3
Totals (9 years).....		\$2,079,541	\$938,771	43.2	Totals (9 years).....		\$34,647,515	\$20,023,318	57.7
Florida.....	1803 1800 1885	\$570,361 198,113 224,535	\$191,287 108,761 280,753	33.5 44.1 125.0	Minnesota.....	1803 1800 1885	\$4,111,718 3,168,519 2,769,090	\$3,438,245 1,556,222 1,144,493	83.6 49.1 41.3
Totals (9 years).....		\$3,559,657	\$2,420,943	68.0	Totals (9 years).....		\$30,761,092	\$19,022,368	61.8
Georgia.....	1803 1800 1885	\$2218,145 1,957,847 1,352,678	\$226,529 835,607 572,163	41.7 42.7 42.3	Mississippi.....	1803 1800 1885	\$453,517 316,816 317,880	\$276,469 130,763 262,290	60.9 41.2 82.5
Totals (9 years).....		\$14,998,045	\$7,943,025	52.9	Totals (9 years).....		\$3,490,749	\$2,135,554	61.2
Idaho.....	1803 1800 1885	\$161,436 67,222 26,327	\$186,100 47,671 12,924	115.3 70.9 49.1	Missouri.....	1803 1800 1885	\$5,211,730 4,468,581 3,905,167	\$5,027,811 2,619,163 2,109,512	96.4 58.6 54.0
Totals (9 years).....		\$585,147	\$468,397	80.0	Totals (9 years).....		\$40,946,163	\$28,397,866	70.1

† Includes previous years. ‡ 1890, 1891, 1892 and 1893 figures include mutual companies.
§ Figures for 1890 include previous years.

* See North Dakota and South Dakota.
† As reported to The Weekly Underwriter.
‡ Corrected from late reports.

RECAPITULATION OF FIRE PREMIUMS AND LOSSES BY STATES—Continued.

STATES.	Year.	Premiums.	Losses.	Ratio of Premiums to Losses.
Montana.....	1893 1890 1885	\$662,805 408,156 237,859	\$214,785 96,846 175,233	32.4 23.7 73.7
Totals (9 years).....		\$3,779,413	\$1,524,033	40.3
Nebraska.....	1893 1890 1885	\$2,003,950 1,979,192 1,381,501	\$1,230,253 1,135,023 353,357	61.4 57.4 25.6
Totals (9 years).....		\$15,764,078	\$7,117,274	45.1
Nevada.....	1893 1890 1885	\$106,497 73,197 98,421	\$64,410 20,594 22,505	60.5 28.1 22.9
Totals (9 years).....		\$894,785	\$379,702	42.4
New Hampshire*.....	1893 1890 1885	\$1,114,799 831,117 506,419	\$458,554 333,972 368,939	42.0 40.1 72.9
Totals (9 years).....		\$8,986,662	\$3,863,259	42.9
New Jersey.....	1893 1890 1885	\$3,606,756 3,346,431 2,299,144	\$1,781,783 1,676,041 1,281,688	48.2 50.1 55.7
Totals (9 years).....		\$26,284,911	\$13,638,771	51.9
New Mexico.....	1893 1890 1885	\$182,953 114,732 127,957	\$167,044 72,211 40,204	91.3 62.9 31.4
Totals (9 years).....		\$1,123,302	\$594,609	52.9
New York.....	1893 1890 1885	\$23,340,352 19,317,090 18,068,456	\$16,590,104 11,129,895 9,904,909	70.8 57.6 54.8
Totals (9 years).....		\$180,976,558	\$118,227,504	65.3
STATES.	Year.	Premiums.	Losses.	Ratio of Premiums to Losses.
South Carolina.....	1893 1890 1885	\$619,955 440,719 579,536	\$607,078 156,355 198,457	97.9 35.4 34.2
Totals (9 years).....		\$3,778,605	\$2,203,099	58.3
South Dakota.....	1893 1890	\$442,112 420,494	\$203,140 219,961	45.9 52.3
Totals (4 years).....		\$1,735,966	\$739,697	42.6
Tennessee.....	1893 1890 1885	\$1,787,033 1,766,369 1,026,872	\$1,465,258 847,453 759,666	81.9 48.0 73.9
Totals (9 years).....		\$13,317,119	\$9,648,844	72.4
Texas.....	1893 1890 1885	\$3,587,107 3,083,573 2,055,428	\$2,952,175 1,317,999 2,259,435	82.3 42.7 109.9
Totals (9 years).....		\$24,558,961	\$16,552,341	67.4
Utah.....	1893 1890 1885	\$222,507 197,019 98,141	\$222,305 109,655 31,705	86.2 55.6 32.3
Totals (9 years).....		\$1,406,550	\$718,864	51.1
Vermont.....	1893 1890 1885	\$764,326 647,486 299,842	\$561,264 325,765 140,868	73.4 50.3 46.9
Totals (9 years).....		\$4,678,652	\$3,221,099	68.8
Virginia.....	1893 1890 1885	\$1,661,590 1,532,355 1,081,090	\$1,306,919 593,013 750,793	78.6 38.7 69.5
Totals (9 years).....		\$11,204,712	\$7,218,469	64.4

North Carolina.....	1893 1890 1885	\$854,016 525,109 463,778	\$720,702 237,833 447,542	84.4 45.3 98.5	Washington.....	1893 1890 1885	\$1,326,072 1,481,255 184,944	\$728,843 750,559 102,105	54.9 50.7 55.2
Totals (9 years).....		\$4,668,058	\$3,262,286	69.8	Totals (9 years).....		\$6,797,328	\$5,301,733	78.0
North Dakota †.....	1893 1890	\$419,620 341,010	\$1,219,803 149,199	290.7 43.7	West Virginia.....	1893 1890 1885	\$402,893 212,176 170,864	\$398,195 119,697 142,174	76.5 56.4 83.2
Totals (5 years).....		\$1,907,981	\$1,886,919	98.8	Totals (9 years).....		\$2,113,314	\$1,243,285	58.8
Ohio.....	1893 1890 1885	\$7,071,329 6,837,552 4,981,358	\$4,420,570 3,779,438 2,956,711	62.5 55.3 59.4	Wisconsin.....	1893 1890 1885	\$4,442,520 3,383,615 2,993,010	\$2,435,908 1,434,067 2,138,260	54.8 42.4 74.5
Totals (9 years).....		\$55,088,463	\$34,244,919	62.1	Totals (9 years).....		\$30,376,352	\$18,499,728	60.9
Oklahoma Territory.....	1893	\$91,090	\$32,178	35.3	Wyoming.....	1893 1890 1885	\$129,223 113,906 49,515	\$73,617 55,159 5,768	57.0 48.4 11.7
Totals (3 years).....		\$152,254	\$44,971	29.5	Totals (9 years).....		\$855,196	\$352,279	41.1
Oregon.....	1893 1890 1885	\$1,273,619 591,051 454,794	\$433,022 135,638 99,508	34.0 22.9 21.9	Aggregate business in United States and Canada.....	1893 1892 1891 1890 1889 1888 1887 1886 1885	\$152,116,060 132,401,829 135,059,233 128,732,540 118,567,107 112,314,762 113,306,932 104,400,938 103,950,165	\$2,520,673 26,544,502 84,702,722 62,613,460 68,343,504 61,188,437 65,758,631 54,474,632 56,163,788	64.7 58.7 62.7 48.6 57.6 54.5 58.0 52.1 54.0
Totals (9 years).....		\$6,868,489	\$2,569,959	37.4	Totals (9 years).....		\$1,120,847,166	\$621,310,349	57.2
Pennsylvania.....	1893 1890 1885	\$10,620,452 8,398,592 7,316,583	\$6,579,435 4,587,191 4,000,546	61.8 54.6 54.7					
Totals (9 years).....		\$78,284,829	\$47,696,873	60.9					
Rhode Island.....	† 1893 † 1890 † 1885	\$4,303,085 3,632,793 2,593,162	\$1,679,088 1,104,898 562,160	39.0 30.4 21.7					
Totals (9 years).....		\$23,236,141	\$7,583,179	32.6					

* Except in 1890, 1890 and 1891, all business done by State companies; town mutuals omitted, but State mutuals included. † See Dakota for years previous to 1886. ‡ Total amount of insurance written and renewed in 1893 (a few States estimated), \$10,346,516,468. § Corrected from late reports.

FIRE INSURANCE STO

DIVIDENDS OF AMERICAN FIRE INSURANCE

NAME AND LOCATION OF COMPANY.	Capital Paid up.	Par Value of Stock.	ANNUAL DIVI										
			1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
Ætna, Hartford.....	\$4,000,000	\$100	22	22	22	22	22	26	24	24	22	20	20
Agricultural, Watertown	500,000	100	10	10	10	10	10	10	10	10	10	10	10
Alamo, San Antonio	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Albany, Albany.....	250,000	50	13½	20	6½	10	12	18	16½	17½	22	17½	15
Allegheny, Pittsburgh.....	100,000	50	5	2	2	2	10	16	4	20	4	4	8
Allemania, Pittsburgh.....	200,000	50	2	5	6	6	6	135	10	5	5	2	6
American, Baltimore.....	180,000	5	12	10	10	10	10	10	10	10	10	10	7
American, Boston.....	300,000	100	16	20	25	25	25	25	25	25	25	25	25
American, New York.....	400,000	50	17	18	17	14	14	14	15	15	15	14	10½
American, Newark.....	600,000	5	8	8	8	9	9	10	10	10	10	10	10
American, Philadelphia.....	500,000	100	15	15	15	15	2	8	8	10	10	10	10
American Central, St. Louis..	600,000	25	2	2	13	2	3½	5	12	5	13	13	12
Arlington, Washington.....	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Armenia, Pittsburgh.....	250,000	100	..	..	..	2	2	11	12	11	9	7	6
Artisans, Pittsburgh.....	100,000	50	13	13	16	4	13	11	5	12	12	10	9
Associated Firemens, Balto...	200,000	5	14	18	6	9	7	8	10	10	10	10	10
Atlanta Home, Atlanta.....	500,000	100	..	..	..	..	..	..	..	..	..	..	..
Ben Franklin, Allegheny.....	150,000	50	2	2	2	2	2	2	2	2	2	2	2
Birmingham, Pittsburgh.....	200,000	50	..	..	..	..	..	4	4	4	4	4	4
Boston Marine, Boston.....	1,000,000	100	..	..	..	..	2	2	10	10	10	10	10
Broadway, New York	200,000	25	16	16	14	18	20	20	20	20	20	20	18
Buffalo German, Buffalo.....	200,000	100	7	5	8½	10	10	15	15	15	15	15	15
Camden F. Ins. Ass'n, Camden	105,730	5	2	2	2	2	2	3½	7	7	7	7	7
Capital, Concord.....	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Capital City, Montgomery...	149,400	100	..	..	10	10	10	10	10	10	10	10	10
Carolina, Wilmington.....	50,000	10	..	..	..	..	..	..	..	..	..	..	..
Cash, Pittsburgh.....	100,000	50	6	20	14	16	16	16	16	16	16	9	8
Cincinnati, Cincinnati.....	150,000	25	12	16	12	2	2	10	10	12	12	12	10
Citizens, New York.....	300,000	20	20	33½	16½	14	7	17	20	20	20	20	20
Citizens, Pittsburgh.....	500,000	50	..	..	..	10	3	5	2	2	12	8	7
Citizens, St. Louis.....	200,000	100	10	10	6	10	10	10	10	10	10	10	8
City, Pittsburgh.....	100,000	50	..	..	125	125	125	125	125	10	10	7	8
Columbia, Dayton.....	150,000	100	..	..	..	..	..	..	..	..	..	..	..
Columbia, Washington.....	100,000	5	..	..	..	..	..	..	..	..	..	..	..
Commerce, Albany.....	200,000	25	10	10	10	10	10	10	14	16	16	16	12
Commercial, Cincinnati.....	100,000	25	12	12	12	12	12	12	12	16	16	16	16
Commercial Union, New York.	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Commonwealth, New York...	500,000	100	..	..	..	..	..	..	..	..	..	..	..
Concordia, Milwaukee	200,000	100	..	..	10	10	7	7	2	10	10	10	10
Connecticut, Hartford.....	1,000,000	100	..	..	6	2	12	15	32	12	10	10	10
Continental, New York	1,000,000	100	16	18	10	8	8½	10	9½	11½	12½	13½	13½
Cooper, Dayton.....	100,000	20	..	..	..	5	4	10	12½	15	15	15	15
Corcoran, Washington.....	100,000	50	..	..	..	..	..	..	10	10	9	8	8
Council Bluffs, Council Bluffs.	100,000	145½	..	..	..	..	..	..	..	..	..	..	..
Crescent, New Orleans.....	240,000	....	..	..	..	..	..	..	..	..	..	..	..

* Including stock dividend of twenty-five per cent.

† Includes stock dividend applied to capital.

‡ Scrip dividend to policyholders ten per cent.

CKS AND DIVIDENDS.

COMPANIES FOR TWENTY-FIVE YEARS.

DEND—PER CENT.														CASH DIVIDEND DECLARED DURING 1894 TO DATE.		Net Book Value of Stock Per \$100, January 1, 1894.	Latest Sale of Stock (per cent).
1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Date.	Pr.Ct.		
20	19	18	18	18	18	18	18	18	18	18	18	18	18	Jan.	5	\$173.71	250
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	10	152.24	180
13½	56½	10	10	10	10	10	10	10	10	8	8	8	8	Jan.	4	113.42	130
8	8	4	8	8	8	8	8	7	6	6	6	6	6	.....	..	124.59	130
8	8	8	8	8	8	8	8	8	6	7	8	6	6	.....	..	144.38	...
7	8	8	8	8	8	8	8	8	8	8	8	8	8	Jan.	4	109.71	90
10	10	10	10	10	5	10	8	3	3	3	2½	..	3	.....	..	139.79	...
10	10	8½	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	91.33	62½
10	10	10	10	10	15	10	10	10	10	10	10	10	10	Mar.	5	134.70	125
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	295.04	200
14	126	10	10	10	7	10	8	5½	9½	8	8	8	8	.....	..	114.39	101
7	9	7	4	4	7	8	6	3	6	6	3	3	6	.....	..	127.15	115
8	8	8	6	6	3	6	6	6	6	6	6	3	3	Jan.	3	145.90	100
10	10	10	10	10	10	10	10	9	8	8	8	8	8	Jan.	4	103.27	100
6	6	6	6	6	6	6	6	6	6	6	6	6	6	Jan.	3	122.07	100
4	4	4	4	4	4	4	4	4	4	4	4	4	4	Jan.	3	166.82	120
10	10	10	10	10	10	10	10	10	9	8	8	8	8	Jan.	4	113.17	...
6	6	6	6	6	6	6	6	6	6	6	6	6	6	Jan.	4	140.04	104
4	4	4	4	4	4	4	4	4	4	4	4	4	4	.....	..	129.22	100
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	212.70	...
16	16	14	14	14	13	12	12	62	10	11	11	10	10	Feb.	5	126.62	110
15	15	15	15	15	15	20	20	20	20	20	20	40	20	Jan.	10	602.77	400
7	7	7	7	8	10	10	10	10	10	10	10	10	10	Jan.	10	200.48	...
10	10	10	10	10	10	6	6	6	6	6	6	6	6	Jan.	3	104.57	100
10	10	10	10	10	10	10	10	10	10	10	10	5	8	Jan.	4	117.34	110
8	8	8	8	8	8	8	8	8	8	8	8	3	6	Jan.	3	116.53	100
10	10	10	10	10	10	10	10	10	10	10	10	8	8	.....	..	161.68	...
20	10	10	10	10	10	10	10	10	10	10	10	10	9	Jan.	4	113.02	130
8	8	8	8	8	3	6	3	3	3	4	4	2	4	Jan.	2	153.53	105
10	3	6	6	6	6	6	6	6	6	3	6	3	6	.....	..	98.17	60
8	8	8	8	8	8	8	8	8	8	8	8	8	8	Jan.	3	207.71	140
10	10	10	10	10	10	10	10	10	10	8	8	8	8	Jan.	4	112.91	80
10	12	7	8	8	8	8	8	8	8	10	12	12	12	Jan.	4	104.35	150
16	16	16	16	16	16	16	16	16	16	50	6	6	6	Apr.	6	200.26	280
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Feb.	1½	116.88	100
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	153.66	150
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	101.52	...
10	10	20	4	8	8	8	4	7	6	6	8	8	8	.....	..	104.42	83½
10	10	10	9	8	8	8	8	8	8	8	8	8	8	.....	..	113.65	115
13½	14	14½	15	15	15	15.4	15.4	12.4	14	14	14	14	15.4	Jan.	4	133.97	115
15	15	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	7.7	257.66	238
8	8	8	8	7	6	6	6	6	6	6	6	6	6	Jan.	5	137.96	...
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	3	.....	140
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	190.71	122½
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	82.95	68

a Scrip dividend to policyholders twenty per cent. c Scrip dividend to policyholders thirty per cent.
 e Seventy-five per cent stockholders notes. f No dividend declared.

FIRE INSURANCE STOCKS

NAME AND LOCATION OF COMPANY.	Capital Paid up.	Par Value of Stock.	ANNUAL DIVI										
			1869	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
Dayton, Dayton.....	\$100,000	\$20	5	10	1½	2½	5	2½	5	11	7½	10	2½
Delaware, Phila.....	702,875	25	10	10	10	10	½	10	10	10	10	10	10
Des Moines, Des Moines....	25,000	100	..	..	..	..	..	..	..	..	..	..	..
Detroit F. and M., Detroit...	400,000	35	15	10	6	½	15	10	10	15	10	10	10
Dubuque F. and M., Dubuque.	100,000	100	..	..	..	..	..	..	..	..	..	..	..
Dwelling House, Boston.....	300,000	100	..	..	..	..	½	½	10	5	10	8	8
Eagle, New York.....	300,000	40	20	20	20	20	20	30	30	30	20	20	15
Empire City, New York.....	200,000	100	10	11	10	10	10	10	14	14	14	10	10
Equitable, Nashville.....	150,000	100	..	..	..	8	5	10	8	½	½	5	½
Equitable F. & M., Prov.....	300,000	50	14	14	10	10	5	10	11	12	12	11	8
Eureka F. & M., Cincinnati..	100,000	20	..	..	..	7½	17½	15	10	13½	12	12	12
Fact. & Traders Mut., Mobile.	150,000	100	..	..	12	12	12	13	15	15	10	8	14
Farmers, Cedar Rapids.....	100,000	100	..	..	..	..	10	5	5	10	15	10	10
Farmers & Mech., Alex., Va..	100,000	100	..	..	..	..	..	..	..	..	..	..	..
Farragut, New York.....	200,000	50	..	..	..	3½	10	10	12½	15	15	15	15
Fire Association, Phila.....	500,000	50	10	10	10	16	20	25	30	40	40	40	40
Fire Ins. Co. County of Phila.	400,000	100	6	6	6	6	6	6	10	10	10	10	10
Fire and Marine, Wheeling...	100,000	100	..	..	..	..	..	..	..	..	..	..	..
Firemans Fund, San Fran....	1,000,000	100	13	16	6	½	12	21	15	20	22	22	17
Firemens, Baltimore.....	378,000	18	27	22	22	22	22	22	22	22	22	22	19
Firemens, Boston.....	400,000	..	..	..	..	..	½	5	10	10	10	10	16
Firemens, Chicago.....	250,000	..	..	..	..	..	½	½	½	8	8	8	8
Firemens, Newark.....	600,000	30	14	14	14	14	14	14	10	12	12	12	12
First Nat., Worcester.....	200,000	100	3½	3½	½	½	6	8	10	10	*60	9	3
Forest City, Rockford.....	100,000	100	..	..	..	..	..	..	½	10	10	5	5
Franklin, Louisville.....	200,000	..	..	..	..	11	12	12	12	12	10	10	10
Franklin, Philadelphia.....	400,000	100	34	35	32	32	32	32	32	32	32	32	32
Franklin, Washington.....	125,000	25	7	6	6	7	8	8	8	8	8	8	8
Georgia Home, Columbus....	300,000	100	10	10	5	3	½	½	5	4½	8	8	8
German, Baltimore.....	500,000	10	10	10	10	10	10	10	10	10	10	10	10
German, Freeport.....	200,000	100	½	½	½	5	5	5	5	10	10	10	10
German, Louisville.....	200,000	50	6	6	6	6	6	6	6	6	6	6	6
German, Peoria.....	200,000	100	..	..	..	..	..	..	..	6	6	6	6
German, Pittsburgh.....	200,000	50	16	16	16	16	16	16	8	12	12	12	12
German, Wheeling.....	100,000	100	10	10	10	10	10	10	10	10	10	10	10
German-American, Baltimore.	200,000	25	..	..	..	..	..	..	..	..	..	..	..
German-American, N. Y.....	1,000,000	100	..	..	..	..	4	10	10	10	10	10	10
German-American, Pittsb'gh..	100,000	50	..	..	..	..	½	½	6	10	4	3	5
German-American, Wash.....	100,000	100	..	..	..	..	..	10	10	10	10	8	8
German National, Louisville..	200,000	..	..	..	..	..	..	..	..	..	..	..	..
German Security, Louisville..	100,000	100	..	..	..	..	..	..	20	..	15	7½	5
Germania, New York.....	1,000,000	50	10	10	10	10	10	10	10	30	30	22	14
Germania, New Orleans.....	200,000	100	..	10	10	10	10	10	10	10	10	10	10
Girard F. & M., Philadelphia.	300,000	100	10	5	10	10	10	21	12	25	20	20	20
Glens Falls, Glens Falls.....	200,000	10	10	10	5	10	10	10	10	10	10	10	10
Globe, New York.....	200,000	50	10	20	11	12½	12½	15	18	20	20	10	10
Grand Rapids, Grand Rapids..	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Granite State, Portsmouth....	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Greenwich, New York.....	200,000	25	20	20	22	28	29	50	55	40	40	30	30
Hamilton, New York.....	150,000	\$15	10	21	10	17½	20	30	20	20	20	15	12½
Hanover, New York.....	1,000,000	50	10	10	8½	10	10	10	10	10	10	10	20
Hartford, Hartford.....	1,250,000	100	20	20	20	½	5	17½	20	20	18	20	20
Hernando, Memphis.....	150,000	100	..	..	..	..	..	17	22	20	20	20	12
Hibernia, New Orleans.....	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Home, Baltimore.....	100,000	10	10	10	10	10	10	10	10	10	10	10	10
Home, New York.....	3,000,000	100	10	*35	10	5	½	10	*30	10	10	10	10
Home, Omaha.....	2100,000	100	..	..	..	..	..	..	..	..	..	..	..
Home Mutual, San Francisco.	300,000	100	1	1	½	½	2½	12½	10	9	12	12	12
Humboldt, Allegheny.....	100,000	50	..	..	..	..	8	8	½	26	12	8	6
Indiana, Indianapolis.....	150,000	50	..	..	..	..	..	..	..	..	..	..	..

* Includes stock dividends applied to capital. * 50 per cent

AND DIVIDENDS—Continued.

DIVIDEND—PER CENT.														CASH DIVIDEND DECLARED DURING 1894 TO DATE.		Net Book Value of Stock Per \$100, January 1, 1894.	Latest Sale of Stock (per cent).
1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Date.	Pr. Ct.		
2½	10	3	6	10	10	10	5	5	3	15	3	6	6	Jan.	3	\$110.96	100
10	10	10	10	10	10	10	8	8	10	10	10	10	10	.....	..	113.40	100
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	301.35	...
10	10	10	10	10	10	10	24	10	10	10	11.7	10	10	Jan.	5	234.13	187½
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	237.26	225
8	8	8	4	6	6	3	6	6	6	6	6	6	10	.....	..	107.20	...
15	15	15	15	15	15	15	15	10	10	12½	10	12½	10	.....	..	303.33	206
7	7	7	3	6	6	6	7	6½	6	6	6	10	3	.....	..	112.27	70
5	8	8	8	8	8	8	8	4	8	8	12	10	10	.....	..	89.15	...
8	7	7	3	4	6	7	8	7	8	7	4	3	3	Jan.	3	111.32	90
12	12	12	12	12	12	12	12	12	12	12	12	12	12	.....	..	205.17	...
8	8	8	8	10	4	12	8	10	10	10	10	10	8	Jan.	4	123.15	103
8½	10	10	10	10	10	10	12½	15	15	25	15	10	18	Jan.	10	178.50	150
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	107.82	100
15	12	12	12	12	10	10	10	10	10	10	10	10	10	Jan.	2½	111.38	100½
40	40	40	40	40	40	40	40	40	40	40	40	40	40	Jan.	20	182.74	300
10	8	10	10	6.6	6	6	6½	6	7	7	7	6	6	Jan.	3	118.77	100
10	10	10	10	10	5	10	8	10	9	10	10	10	6	.....	..	112.09	115
47½	12	12	12	12	12	12	12	12	12	12	12	12	12	Jan.	3	173.30	160
15	12	4	3	6	6	6	6	6	6	6	6	6	6	Jan.	3	131.31	100
10	10	10	10	10	10	10	10	10	7	10	10	10	7	Apr.	3	172.54	122
8	8	8	8	10	7	7	8	3	6	10	10	10	10	.....	..	126.77	...
12	12	12	12	12	15	12	12	12	12	12	12	12	12	Jan.	3	252.06	210
3	3	3	3	10	10	10	8	8	8	8	8	10	4	.....	..	100.07	90
4	10	10	12	12	14	16	28	25	30	25	30	30	30	Jan.	12	224.14	400
55	9	10	10	10	5	10	10	9	8	4	10	10	10	.....	..	101.28	...
32	20	20	20	20	25	25	25	22½	25	22½	22½	20	20	Jan.	5	338.43	340
8	8	8	8	8	8	8	8	8	8	10	10	10	10	.....	..	198.04	192
10	10	11	12	10	9	10	10	17	12	17	12	6	12	.....	..	200.00	...
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	191.24	...
10	10	10	10	20	20	20	20	20	20	20	20	20	20	.....	..	436.08	...
6	6	6	6	6	6	6	6	6	6	6	6	6	6	.....	..	.....	...
10	10	10	8	10	6	8	8	8	6	6	6	6	9	.....	..	122.42	150
12	12	12	12	12	12	12	12	10	8	10	10	10	10	Jan.	5	125.00	140
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	147.25	160
10	4	6	4	4	6	6	6	6	6	6	6	6	6	Jan.	3	147.11	105
10	10	12	12	13	14	14	15	20	20	20	20	20	20	Jan.	10	265.58	300
4	6	6	6	6	6	6	8	8	8	8	8	8	8	.....	..	149.12	...
8	8	8	8	7½	7	8	8	8	10	10	10	10	10	Feb.	5	201.44	185
10	10	10	10	10	3	6	6	6	3	6	6	6	10	Jan.	3	101.10	...
5	4	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	152.59	...
12	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	169.03	170
10	10	10	10	10	10	10	10	10	10	10	10	10	10	.....	..	100.58	...
20	20	25	24	24	23	24	24	25	24	24	24	20	20	Jan.	5	255.30	306
10	10	10	10	10	15	10	10	10	10	10	10	10	20	Jan.	10	736.00	550
10	10	10	10	10	10	10	10	10	10	8	8	10	6	.....	..	102.54	78
10	10	10	10	10	10	10	10	5	6	6	6	6	6	.....	..	110.41	110
10	10	10	10	10	10	10	10	10	10	6	6	6	6	Feb.	3	122.30	100
30	30	30	30	30	10	10	10	10	10	10	10	10	10	Jan.	5	158.79	118
12½	10	10	10	10	10	10	10	6	6	3	10	10	6	Jan.	3	121.60	75
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	121.93	110
20	20	20	20	20	20	20	20	20	20	24	24	24	24	Jan.	14	255.30	350
17	12	12	12	9	10	10	5	10	10	10	9	5	10	.....	..	101.19	...
10	10	10	10	10	10	10	4	10	10	10	10	10	10	Jan.	4	105.68	...
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	148.32	150
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	117.33	125
10	10	10	10	10	10	10	10	5	5	5	5	10	10	.....	..	157.37	120
12	12	12	12	12	12	12	12	12	12	12	12	8	12	Jan.	6	200.92	200
6	6	3	6	6½	10	4	6	4	6	6	6	7	8	Jan.	4	140.27	120
10	7½	5	3	10	10	10	7	10	3	4	3	5.4	10	.....	..	.....	...

stockholders' secured notes. No dividend declared.

FIRE INSURANCE STOCKS

NAME AND LOCATION OF COMPANY.	Capital Paid up.	Par Value of Stock.	ANNUAL DIVI										
			1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
Ins. Co. of N. America, Phila.	\$3,000,000	\$10	12	20	20	20	20	20	20	20	20	20	20
Ins. Co. of State of Pa., Phila.	200,000	200	12	12	12	12	20	4	12	12	12	12	12
Jefferson, Philadelphia.....	100,000	50	6	6	6	6	6	10	10	10	10	10	10
Kings County, Brooklyn.....	150,000	20	10	10	10	10	10	20	20	20	20	20	20
Lincoln, Washington.....	100,000	5	..	..	..	..	..	..	..	..	..	..	..
Louisville, Louisville.....	100,000	100	..	..	..	20	16	16	16	16	16	16	16
Lumbermens, Philadelphia....	250,000	25	..	..	..	..	20	20	20	20	20	20	20
Manuf'ers & Merchants, Pitt.	250,000	50	30	16%	16%	16%	28	29	19	24	17	16	13%
Maryland, Baltimore.....	100,000	5	12	5	20	5	10	10	10	10	10	10	10
Mechanics, Philadelphia.....	250,000	25	..	..	..	20	10	20	12	16	16	16	8
Mechanics & Traders, N. O....	375,000	100	..	..	..	10	10	10	10	10	10	10	10
Mercantile F. & M., Boston...	400,000	100	15	15	15	7	10	10	16	16	10	10	10
Merchants, Bangor.....	100,000	100	..	..	..	..	..	..	..	..	..	..	..
Merchants, Newark.....	400,000	25	10	10	10	10	12	12	12	12	12	12	12
Merchants, Providence.....	200,000	50	12	8	8	10	20	12	12	12	12	7	8
Merchants and Man., Cin....	150,000	20	15	15	15	15	15	15	15	15	15	13%	10
Miami Valley, Dayton.....	100,000	20	5	5	10	10	10	11	10	10	10	10	10
Michigan F. & M., Detroit....	400,000	50	..	..	..	..	..	..	..	..	..	..	..
Milwaukee Mech., Milwaukee	200,000	10	20	20	20	20	20	20	20	20	20	20	20
Minnesota, Minneapolis &....	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Monongahela, Pittsburgh.....	175,000	50	5	8	20	11	10	9	11	8	7	7	7
Nassau, Brooklyn.....	200,000	50	20	20	20	20	20	20	20	20	20	20	20
National, Allegheny.....	100,000	50	8	8	8	8	23	10	20	20	5	6	3
National, Baltimore.....	100,000	5	..	..	20	20	20	20	20	20	11	12%	12
National, Cincinnati.....	100,000	100	4	10	10	10	10	12	12	12	12	10	10
Nat'l F. & M., Elizabeth, N. J.	100,000	50	9	11	9	12	12	12	12	12	12	11	10
National, Hartford.....	1,000,000	100	..	..	4	6	12	18	18	15	12	12	12
Nat. Metropolitan, Wash'ton.	100,000	50	..	12	12	12	12	12	12	12	8	8	8
National Union, Washington.	100,000	5	12	18	6	14	10	12	20	20	20	20	20
New Hampshire, Manchester.	800,000	100	8	8	8	8	8	8	8	8	8	8	8
N. O. Ins. Ass'n, New Orleans	300,000	30	20	10	10	10	10	10	10	10	10	10	10
New York Bowery, N. Y.....	200,000	25	20	20	20	20	20	30	20	20	20	20	20
New York Fire, New York....	200,000	100	15	16	16	16	18	20	20	20	17	14	12
Newark, Newark.....	250,000	5	8	8	8	8	8	9	9	10	10	10	10
Niagara, New York.....	500,000	100	10	10	3%	20	12	12	12	12	12	10	12
North American, Boston.....	200,000	100	..	..	..	10	12	12	12	12	12	11	10
North River, New York.....	350,000	25	10	15	15	10	6	18	18	15	12	12	12
Northwestern National, Mil..	600,000	100	20	20	20	20	20	20	20	20	20	20	20
Norwalk, Norwalk.....	50,000	..	8	8	8	8	8	8	8	8	8	8	8
Oakland Home, Oakland.....	200,000	100	..	..	..	..	..	..	..	..	..	..	..
Ohio, Dayton.....	150,000	15	25	25	25	25	18%	12	8	4	7%	10	10
Old Town, Baltimore.....	100,000	5	..	..	..	..	..	..	..	..	..	..	..
Orient, Hartford.....	500,000	100	..	..	..	20	20	15	12	12	8	11	10
Pacific, New York.....	200,000	25	16	16	20	20	20	30	30	30	20	30	20
Peabody, Baltimore.....	127,500	25	12	12	12	12	12	12	12	12	12	12	10
Peabody, Wheeling.....	100,000	80	..	25	25	12%	12%	12	10	2	2%	2	2
Pennsylvania, Philadelphia...	400,000	100	15	15	15	15	20	20	10	10	10	10	10
Peoples, Pittsburgh.....	150,000	..	..	..	3	16	12	12	12	12	12	12	12
Peoples, Washington.....	100,000	5	..	..	..	..	..	..	..	..	..	..	..
Peter Cooper, New York.....	150,000	20	11	12	12	16	20	20	20	20	20	20	20
Petersburg Sav. & Ins. Co., Va	200,000	20	5	10	20	20	5	10	3	6	3	6	20
Phenix, Brooklyn.....	1,000,000	50	10	11	12	10	10	10	15	20	20	15	10
Phoenix, Hartford.....	2,000,000	100	19	25	25	20	25	27%	37%	20	20	20	20
Pittsburgh, Pittsburgh.....	100,000	50	16	22	10	20	20	28	20	20	20	16	16
Planters & Merchants, Mobile	100,000	50	16	39	6	12	6	6	21	6	2	8	2
Portsmouth, Portsmouth, Va..	31,275	25	10	8	10	10	10	10	10	10	10	10	10
Providence-Washington, Prov	400,000	50	12	15	6%	20	20	13	12	7	2	4%	4%
Queen of America, New York.	500,000	100	..	..	..	..	..	..	..	..	..	..	..
Reading, Reading.....	250,000	10	5	10	5	8	5	10	6	8	10	6	8
Reliance, Philadelphia.....	300,000	50	8	8	8	8	8	8	8	8	8	8	8

* Includes stock dividends applied to capital.

† Stock dividend.

§ Formerly

AND DIVIDENDS—Continued.

DEND—PER CENT.														CASH DIVIDEND DECLARED DURING 1894 TO DATE.		Net Book Value of Stock Per \$100, January 1, 1894.	Latest Sale of Stock (per cent).
1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Date.	Pr. Ct.		
20	20	20	20	20	20	20	15	15	15	15	15	12	12	Jan.	6	\$155.53	165
12	11	10	10	10	10	10	10	10	10	10	10	10	15	.....	..	125.54	100
10	10	10	10	12½	12	12	12	12	12	12	12	12	12	.....	..	314.12	200
20	20	20	20	20	20	20	20	16	12	12	12	12	12	Jan.	6	210.34	165
..	..	..	..	..	..	..	..	..	..	..	..	..	6	Jan.	2	.....	150
16	16	16	16	16	16	16	16	16	16	16	16	5	5	.....	..	125.79	...
6	6	6	6	6	6	6	6	6	6	8	8	8	8	Jan.	4	235.00	160
13½	10	8	9	8	8	8	8	8	6	6	6	6	6	Jan.	3	116.35	100
6	6	6	6	6	6	6	6	6	6	6	6	6	6	Jan.	3	118.10	90
10	6	6	8	8	8	8	8	8	8	8	8	8	8	Jan.	4	140.00	120
10	10	10	10	10	10	10	10	10	10	10	10	5	5	Jan.	5	115.48	100
10	10	10	10	10	9	8	8	8	8	8	7	8	7	.....	..	102.35	90
..	..	..	..	..	..	8	8	8	4	8	8	4	..	Feb.	6	.....	160
12	12	12	12	11	10	10	10	10	10	10	10	10	10	.....	..	125.87	160
5	6	6	3	3	6	8	8	7	8	7	4	3	3	Jan.	3	117.06	101
12	12	12	12	12	12	12	12	12	12	12	12	12	12	Jan.	6	149.67	175
10	10	10	10	5	10	10	10	10	10	10	10	10	10	Jan.	5	148.54	175
..	8	8	8	8	8	4	7	8	8	8	8	8	4	.....	..	106.58	125
8	8	8	8	5	10	20	20	25	25	30	30	30	20	Jan.	10	601.79	...
..	..	..	..	..	..	8	3	3	3	6	6	6	8	.....	..	103.78	...
8	8	8	7	3	7	6	3	8	6	3	7	6	6	.....	..	129.16	80
14	14	14	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	214.15	150
7	8	8	8	8	8	8	8	8	8	8	8	8	8	Jan.	4	200.12	120
10	10	15	8	8	6	6	5	4	5	6	6	6	6	Jan.	3	140.18	100
10	10	10	10	10	10	10	10	10	10	10	9	8	6	Jan.	3	121.62	...
10	8	8	8	8	7	8	6	6	6	6	6	6	..	.....	..	129.45	...
12	12	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	119.91	140
8	8	8	8	8	6	6	6	6	6	7½	7	8	8	.....	..	191.70	...
20	20	20	20	20	20	20	20	20	20	20	20	18	18	.....	..	249.67	260
8	8	8	8	8	8	8	8	8	8	8	8	8	8	Jan.	4	154.33	160
10	10	10	10	10	5	8	8	8	6	6	3	8	8	.....	..	102.18	60
10	20	20	12	12	12	12	12	10	9	6	6	6	6	Jan.	3	122.14	70
10	10	10	4	8	8	8	8	8	8	3	8	8	8	.....	..	109.02	75
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	178.40	155
13	14	14	12	10	10	10	10	10	10	10	10	10	10	Jan.	5	160.68	150
10	10	10	10	10	6	7	6	7	6	3	8	2½	8	.....	..	105.22	...
12	12	10	10	10	6	8	8	8	6	6	6	6	6	.....	..	104.61	76
8	10	10	10	10	10	10	10	10	10	10	10	10	5	Jan.	5	151.70	160
8	8	8	8	8	8	8	8	8	8	8	8	8	9	.....	..	161.44	...
..	6	6	6	6	6	6	6	8	9	9	9	9	6	.....	..	111.08	...
10	10	10	7	8	8	3	6	3	6	6	6	6	6	Jan.	3	106.37	110
10	..	..	8	..	8	8	2½	5	5	5	5	5	6	.....	..	126.27	...
10	10	8	8	2	3	3	6	6	6	6	6	6	8	.....	..	163.68	110
20	20	16	14	14	12	12	12	12	12	11	10	10	10	Jan.	5	199.01	123
10	10	10	10	10	10	10	10	10	10	10½	10.4	10.4	10.4	Jan.	5	352.14	...
2½	6	8	10	8	8	8	6	10	8	4	6	..	..	.....	..	109.05	...
10	10	10	10	10	10	12½	12½	10	12½	15	15	15	15	.....	..	415.25	299½
12	12	12	12	7	6	6	3	3	3	8	8	5½	5½	.....	..	113.83	...
..	..	..	..	..	..	..	..	..	..	..	..	6	6	Jan.	3	117.77	110
12	20	16	12	12	12	12	12	12	12	11	10	10	10	Feb.	5	198.86	132
4½	7	8	8	8	6	6	6½	7	7	7	7	7	7	.....	..	150.04	...
10	10	10	10	10	10	10	10	10	6	10	10	10	10	Jan.	5	116.14	115
20	21	14	14	14	14	14	14	14	14	14	14	14	14	Jan.	3½	135.66	185
16	16	16	16	16	16	16	16	16	16	16	16	16	16	Jan.	8	261.66	260
8	10	10	10	10	10	10	10	10	8	8	8	8	8	.....	..	80.66	42
10	10	10	15	15	10	10	10	10	10	10	10	10	10	Jan.	5	256.52	150
10	8	8	8	4	8	8	8	8	8	6	6	3	3	.....	..	104.83	100
..	..	..	..	..	..	..	..	..	..	..	..	8	8	.....	..	305.96	300
8	8	8	8	8	8	8	8	8	8	8	8	4	4	Jan.	4	138.25	100
8	8	8	8	8	8	8	8	8	8	8	8	4	4	.....	..	160.75	118

the Syndicate. Mutual until 1884. No dividend declared.

FIRE INSURANCE STOCKS

NAME AND LOCATION OF COMPANY.	Capital Paid up.	Per Value of Stock.	ANNUAL DIVI										
			1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
Rochester German, Rochester.	\$200,000	\$50	..	..	..	..	7	*25	10	10	10	10	12
Rockford, Rockford.....	200,000	100	*40	4	4	20	22½	30	30	35	40	40	65
Rutgers, New York.....	200,000	25	15	16	16	20	20	20	20	25	20	20	20
Security, Cincinnati.....	150,000	100	..	..	..	..	..	..	..	..	..	..	..
Security, New Haven.....	200,000	50	10	10	10	10	35	28	11	11	10	7	4
Southern, New Orleans.....	300,000	100	..	..	..	..	..	..	..	..	..	..	..
Spring Garden, Philadelphia.	400,000	50	12	12	12	12	12	*112	12	16	16	16	16
Springf'd F. & M., Springf'd.	1,500,000	100	12	10	14	8	9	11	10	10	10	10	10
St. Paul F. & M., St. Paul....	500,000	100	φ	φ	φ	12½	12	12	12	11	10	10	10
Standard, Trenton.....	100,000	25	φ	φ	φ	φ	φ	φ	8	8	8	φ	5
State, Des Moines.....	200,000	100	φ	φ	φ	10	10	10	10	10	10	10	10
State Ins. Co., Nashville.....	200,000	100	..	10	15	11	10	10	10	10	12	11	11
State, Salem, Ore.....	100,000	100	..	..	..	..	..	..	..	..	..	..	..
Stonewall, Mobile.....	150,000	100	*23	*23	*15	*8	*18	*8	*15	*8	*10	*8	*10
Stuyvesant, New York.....	200,000	25	10	10	10	12	13	16	20	20	16	14	14
Sun, San Francisco.....	300,000	100	..	..	..	..	..	..	..	..	..	..	..
Sun Mutual New Orleans.....	500,000	100	6	6	6	6	6	10	10	10	10	10	10
Teutonia, Allegheny.....	125,000	50	..	..	φ	8	8	25	13½	18½	16	13	12
Teutonia, Dayton.....	100,000	20	3½	6½	5	*63	12½	15	15	15	15	15	15
Teutonia, New Orleans.....	250,000	100	..	..	..	10	10	10	10	10	10	10	10
Teutonia, Philadelphia.....	200,000	100	..	..	2	2½	3	3	6	6	6	6	3
Traders, Chicago.....	500,000	100	..	..	φ	φ	10	12	12	12	12	9	8½
Union, Buffalo.....	100,000	100	..	..	..	..	..	φ	8	10	10	10	3
Union, Philadelphia.....	200,000	2.77 7-9	..	..	..	φ	φ	φ	*10	8	14	8	8
Union, Pittsburgh.....	100,000	50	..	..	φ	φ	4	4	10	8	4	6	6
United Firemens, Phila.....	300,000	10	φ	φ	φ	11	10	10	10	14	14	14	12
United States, New York....	250,000	25	14	14	14	14	14	14	16	16	16	12	11
Vernon Ins. & Trust, Ind....	150,000	50	..	..	..	..	..	..	..	..	..	..	..
Virginia F. and M., Rich....	250,000	25	10	10	10	12	14	16	16	16	16	13	12
Virginia State, Richmond....	200,000	25	10	10	10	10	10	10	10	10	10	10	10
Washington, Cincinnati.....	150,000	25	9	5	5	10	10	10	10	10	10	10	3½
Westchester, New York.....	300,000	10	φ	φ	10½	10	10	10	*35	*35	10	10	10
Western, Louisville.....	100,000	100	..	..	..	φ	12½	14	16	16	6	4	8
Western, Pittsburgh.....	300,000	50	15	14	12	18	18	16	14	14	14	8	10
Williamsburgh City, B'klyn...	250,000	50	10	10	10	10	10	12	20	20	20	20	20

* Includes stock dividends applied to capital.

AND DIVIDENDS—Continued.

DEND—PER CENT.														CASH DIVIDEND DECLARED DURING 1894 TO DATE.		Net Book Value of Stock Per \$100, January 1, 1894.	Latest Sale of Stock (per cent).
1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	Date.	Pr. Ct.		
10	12	8	8	8	8	8	8	8	12	8	10	10	10	Jan.	5	\$92.58	150
130	35	24	*122	20	17	14	14	18	16	16	16	16	16	Jan.	5	150.69	225
20	14	14	10	11	10	10	10	10	10	10	10	10	10	Jan.	5	134.21	115
..	..	8	8	8	8	3	6	3½	6	6	6	6	6	.....	..	122.98	...
7	7	3	6	3	7	8	9	8	7	8	4	7	7	.....	..	114.26	112
..	..	..	8	8	8	8	8	8	8	8	8	8	8	Jan.	4	108.74	95
16	16	16	16	16	16	16	16	16	16	16	16	16	16	Jan.	4	131.14	150
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	5	124.16	175
10	10	10	10	10	10	10	10	10	10	12	12	12	12	Jan.	5	124.25	179
5	7	7	7	6	6	6	6	3	6	6	3	3	6	Jan.	3	130.80	112
10	10	10	10	10	8	8	8	6	5	7	6	7½	7½	.....	..	103.10	...
16	15	11	8	10	10	10	10	9	10	10	9	7	3	Jan.	3	105.18	90
..	..	..	..	5	8.1	7.8	10	10	15	15	15	10	10	.....	..	211.76	220
*12	*10	*8	*10	*10	*10	*10	*10	10	10	10	10	8	10	.....	..	131.55	112
14	10	10	11	10	9	10	8	6	7	6½	6	6	6	Jan.	3	109.04	90
..	..	7	10	7½	2½	10	10	5	10	10	10	10	10	Jan.	2½	104.38	102
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	3½	136.05	125
8½	8	7	6	6	6	6	6	8	8	8	8	8	8	Jan.	4	135.20	104
15	15	15	20	20	20	20	20	20	20	20	20	20	20	Jan.	10	376.62	...
10	10	10	10	10	10	10	10	10	10	10	10	7	10	.....	..	134.23	125
6	6	6	6	6	4½	4	4	4	4	4½	10	4	4	.....	..	107.58	90
9	9	10	10	10	10	10	10	10	10	10	10	10	10	Jan.	2½	218.34	150
8	8	8	6	6	6	6	6	6	6	6	6	6	6	Jan.	3	148.15	125
8	8	8	8	4	..	7	4	7	7	7	7	7	7	.....	..	108.78	74
6	6	6	3	3	3	6	6	6	6	6	6	6	6	Jan.	3	132.38	96
12	7	7	6	6	6	6	6	6	6	7	7	6	6	Jan.	3	125.62	125
10	10	10	10	10	10	10	11	11	12	11	10	10	10	Jan.	3	140.28	90
..	..	..	..	..	..	..	..	..	8	8	8	8	..	.....	..	.....	...
11	11	10	10	10	10	10	9	8	9	10	10	10	9	Jan.	4	127.65	140
..	..	..	..	..	..	6	6	6	6	6	6	6	6	.....	..	124.06	...
4	8	8	8	8	8	8	10	8	8	8	8	8	8	J.,A.	4	128.74	125
10	10	10	10	10	10	10	10	10	10	10	10	10	10	Feb.	5	209.16	150
8	8	8	8	8	8	9	9	9	8	8	8	8	8	.....	..	186.52	...
12	11	7	7	7	8	8	4	7	6	6	3	7	7	.....	..	103.78	86
20	20	20	20	20	20	20	20	20	20	20	20	20	20	Jan.	10	338.96	320

* Mutual until 1871. # No dividend declared.

UNDERWRITERS' ORGANIZATIONS.

We give a list herewith of National and State organizations of fire underwriters, and the names of their officers; also the names of the officers of the local boards in a few of the more important cities. To give the list of all local boards in the country would require more space than we have at our disposal. The following list has been corrected especially for THE INSURANCE YEAR BOOK.

NATIONAL BOARD OF FIRE UNDERWRITERS.

President, E. A. Walton, New York; vice-president, Wm. B. Clark, Hartford; secretary, Robert B. Beath, Philadelphia; treasurer, Fred W. Arnold, Providence.

Executive Committee—E. F. Beddall, New York, chairman; James Nichols, Hartford; J. L. Cunningham, Glens Falls; Eugene Harbeck, Detroit; W. B. Clark, Hartford; John W. Murray, New York; R. Dale Benson, Philadelphia; E. C. Irvin, Philadelphia; Marshall S. Driggs, Brooklyn; J. A. Macdonald, New York; Hugo Schumann, New York; Henry K. Miller, New York, secretary.

NATIONAL CONVENTION OF INSURANCE COMMISSIONERS.

President, James F. Pierce, New York; vice-president, B. K. Durfee, Illinois; secretary, J. A. Brinckerhoff, Springfield, Ill.

Executive Committee—John C. Linchan, New Hampshire; George S. Merrill, Massachusetts; George B. Luper, Pennsylvania.

UNDERWRITERS INTERNATIONAL ELECTRIC ASSOCIATION.

President, C. E. Bliven, Chicago, Ill.; secretary and treasurer, C. M. Goddard, 55 Kilby street, Boston, Mass.

Electrical Committee—Chairman, F. E. Cabot, Boston; Wm. McDevitt, Philadelphia; Geo. F. Lowe, San Francisco; A. E. Van Geisen, New York; E. A. Fitzgerald, Syracuse; Edward Leloup, New Orleans; W. H. Merrill, Chicago; C. E. Bliven, Chicago; C. M. Goddard, Boston.

FIRE UNDERWRITERS UNION.

Committee—Martin Bennett, E. G. Richard, Hartford; Chas. Sewall, James F. Dudley, A. W. Damon.

THE UNION.

President, Thomas S. Chard, Chicago; vice-president, Daniel C. Osmun, Chicago; secretary, C. L. Whittemore.

WESTERN FACTORY INSURANCE ASSOCIATION.

President, Eugene Harbeck, Chicago; secretary and treasurer, George W. Blossom.

Executive Committee—Eugene Harbeck, Eugene Cary, Dan Winslow, A. F. Dean, George W. Blossom.

SOUTH-EASTERN TARIFF ASSOCIATION.

President, Livingston Mims; vice-president, John D. Young; secretary, S. Y. Tupper.

Executive Committee, resident—B. H. Abrams, Thomas Eggleston, C. C. Fleming, C. E. Dox, John

W. Pearce, E. S. Gay, L. M. Tucker, John C. Whitner. Non-resident—George W. Dewey, North Carolina; Houston Dee, South Carolina; A. B. Andrews, Georgia; C. Kreth, Alabama; A. C. Lee, Mississippi; G. H. Frost, Louisiana; Crosby Dawkins, Florida; W. H. McCarthy, Virginia.

New Orleans Compact Committee—C. F. Low, L. M. Finley, George H. Frost, W. R. Lyman, Thomas Sefton, I. B. Hanford, J. A. Thomas, William M. Railey, Thomas Eggleston.

Advisory Committee on Virginia—L. R. Warren, M. L. Hewes, N. E. Randolph, A. B. Andrews, G. W. Dewey, John W. Churchill, John F. Ewens.

NEW ENGLAND INSURANCE EXCHANGE.

President, A. C. Adams; first vice-president, E. C. Brush; second vice-president, E. C. North; third vice-president, S. G. Howe.

Executive Committee—W. H. Smith, chairman; G. W. Hinkley, J. J. Downey, C. L. Woodside and G. H. Ide.

NEW ENGLAND BUREAU OF UNITED INSPECTION.

Chairman, J. M. Forbush; vice-chairman, F. H. Stevens; treasurer, A. C. Adams; secretary, R. W. Hilliard.

FIRE UNDERWRITERS ASSOCIATION OF THE NORTHWEST.

President, H. C. Stuart, Des Moines, Ia.; vice-president, Geo. M. Lovejoy, Chicago; secretary and treasurer, E. V. Munn, Beloit, Wis.

Directors—E. V. Munn, Beloit, Wis.; W. K. Foster, Grand Rapids, Mich.; H. C. Stewart, Des Moines, Ia.; A. E. Pinkney, Kansas City, Mo.; J. J. Windle, Minneapolis, Minn.; C. F. Wilson, Denver, Col.; George W. Adams, Chicago; D. S. Wagner, Chicago; H. C. Eddy, Chicago; G. M. Lovejoy, Chicago; C. E. Bliven, Chicago; D. W. Burrows, Chicago; I. S. Blackwelder, Chicago.

UNDERWRITERS ASSOCIATION OF THE MIDDLE DEPARTMENT.

President, A. N. Stewart; first vice-president, R. H. Wilson; second vice-president, M. Lewin Hewes; secretary and treasurer, E. R. Clemence, 316 Walnut street, Philadelphia.

Executive Committee—Benj. Bevier, chairman; W. B. Kelly, B. F. Walker, J. B. Kremer, H. O. Kline, Thos. C. Temple, Ross M. Wickham.

PACIFIC INSURANCE UNION.

President, H. R. Mann; vice-president, William J. Dutton; auditor, V. C. Driffeld; secretary and treasurer, Charles D. Haven.

Executive Committee—H. R. Mann, *ex-officio*; William J. Dutton, *ex-officio*; I. Gutte, F. Mullins, J. N. Reynolds and L. L. Bromwell.

FIRE UNDERWRITERS ASSOCIATION OF THE PACIFIC.

President, Rolla V. Watt; vice-president, V. C. Drifffield; secretary and treasurer, R. W. Osborne. Executive Committee—Herbert Folger, J. H. De Veveuve and Franz Jacoby.

CANADIAN FIRE UNDERWRITERS ASSOCIATION, QUEBEC AND ONTARIO.

President, Thos. R. Wood, Toronto. Quebec Branch—vice-president, Thos. Davidson; secretary, Alf. W. Hadrill. Ontario branch, vice-president, P. H. Sims; secretary, Robt. McLean.

ASSOCIATION OF FIRE UNDERWRITERS OF ARKANSAS.

President, L. B. Leigh; vice-president, Milton Dargan; secretary, H. M. Johnson, Little Rock. Executive Committee—J. F. Boyle, T. C. Powell, J. T. Murphy, L. B. Leigh, Milton Dargan.

THE MOUNTAIN FIELD CLUB.

President, F. A. Thompson; vice-president, H. T. Lamey; secretary, C. B. Colby, Denver. Executive Committee—Chairman, D. C. Packard, W. A. McGrew, J. C. Mooney, C. D. Dunlop, C. R. Crichtell.

ASSOCIATION OF FIRE UNDERWRITERS OF THE DISTRICT OF COLUMBIA.

President, R. W. Tyler; vice-president, Samuel Cross; secretary, treasurer and inspector, E. N. Waters, 1335 F street, N. W., Washington. Executive Committee—W. Riley Deeble, chairman; B. L. Blackford, F. W. Pratt, F. T. Rawlings, H. H. Bergmann, Myer Cohen, John B. Wright.

ILLINOIS STATE BOARD OF UNDERWRITERS.

President, C. S. French, Jacksonville; vice-president, L. E. Hildreth, Chicago; secretary, C. F. Persch, Chicago. Directors—R. S. Odell, W. E. Vandeventer, H. H. Rossweller and E. V. Munn, Chicago; J. G. Stauffer, Decatur; William Feller, St. Louis.

INDIANA ASSOCIATION OF UNDERWRITERS.

President, R. Klum; vice-president, J. B. Cromer; secretary and treasurer, C. E. Lemon. Executive Committee—Dan Brown, chairman; J. T. Stahl and J. W. Wood.

IOWA UNDERWRITERS ASSOCIATION.

President, W. E. Page; vice-president, Roger Swire; secretary and treasurer, C. H. Turner, Des Moines. Executive Committee—Chairman, W. A. Hand; A. A. Clark, H. C. Alverson, C. W. Fracker, E. W. Allabach, A. J. Morrison, C. L. Kingsley, W. E. Page, C. H. Turner.

KENTUCKY AND TENNESSEE UNDERWRITERS ASSOCIATION.

President, C. D. Thompson, Harrodsburg; vice-president, C. T. Baird, Louisville; secretary, A. W. Westgate, Louisville. Executive Committee—E. J. Watkins, G. A. Curry, J. C. Johnston, J. P. Singleton, U. F. Moss.

MICHIGAN ASSOCIATION OF FIRE UNDERWRITERS.

President, Louis F. Margah, Detroit; vice-president, J. W. O'Brien, Grand Haven; secretary and treasurer, J. S. Fletcher, Detroit. Executive Committee—J. W. Meyer, J. A. Armstrong and J. F. Sewnie.

MINNESOTA AND DAKOTA FIRE UNDERWRITERS.

President, Walter H. Cobban, Minneapolis, Minn.; vice-president, W. O. Chamberlin; secretary, Walter I. Fisher; treasurer, C. W. Higley. Executive Committee—W. E. Higbee, Minneapolis, Minn.; E. M. Hitchcock, H. P. Fowler, R. A. Overpeck, Charles Hall.

ASSOCIATION OF FIRE UNDERWRITERS OF MISSOURI.

President, D. R. Davenport; vice-president, A. F. Bullard; secretary, W. E. Mariner. Executive Committee—A. E. Pinkney, J. D. Fleming, W. R. Townley, M. W. Van Valkenburg, John H. Carr and Samuel L. Long.

FIELD CLUB (NEBRASKA).

President, Frank D. Lyon, Omaha; secretary and treasurer, C. E. Tebbetts, Beatrice. Executive Committee—S. J. Alexander, Lincoln, chairman; John T. Hopkins, D. B. Welpton, Francis Dana, H. N. Woods, Omaha.

NEW HAMPSHIRE BOARD OF UNDERWRITERS.

President, A. P. Howard; vice-president, John C. French; treasurer, T. M. Lang; secretary, S. C. Eastman, Concord. Executive Committee—A. F. Howard, chairman; E. J. Leach, S. C. Eastman, Wm. H. Elliot, O. Morrill, F. W. Sargeant, L. Jackman.

NEW JERSEY UNDERWRITERS ASSOCIATION.

President, R. P. Conlon, Newark; vice-president, R. R. Miller; secretary and treasurer, I. W. Rogers, 11 West State street, Trenton. Executive Committee—John E. Muller, Jersey City; J. A. Morrisse, Paterson; T. Frank Appleby, Asbury Park; C. J. Adams, Atlantic City.

UNDERWRITERS ASSOCIATION OF NEW YORK STATE.

President, J. M. Carothers; vice-presidents, C. H. Van Antwerp and I. H. Lindsley; secretary, W. J. Fredrick, Room 109 Everson building, Syracuse; treasurer, A. W. Selkirk. Executive Committee—F. S. Tyler, chairman; H. A. Smith, G. W. Wyatt, Geo. E. Congdon, W. J. Mackay.

NEW YORK STATE BOARD OF SUPERVISING AND ADJUSTING AGENTS.

President, C. H. Van Antwerp; vice-president, L. L. Barney; secretary, A. P. Howes, Utica. Executive Committee—L. S. Morgan, Thomas Turnbull, R. B. DeWitt, M. Caruthers, G. W. Wyatt, G. W. Burchell.

NEW YORK STATE ASSOCIATION OF LOCAL BOARDS OF FIRE UNDERWRITERS.

President, M. G. Thomson, Utica; vice-presidents, Charles D. Goodrich, Newburgh; H. B. Boss, Binghamton; J. H. Pike, Johnstown; secretary, William T. Ford, Cohoes; treasurer, John L. Getman, Gloversville.

OHIO FIRE UNDERWRITERS ASSOCIATION.

President, G. W. Billow, Springfield; vice-president, John Muenner, Akron; secretary, Charles E. Hedwell, Columbus; treasurer, W. J. Ellber, Columbus.

PENNSYLVANIA ASSOCIATION OF FIRE INSURANCE AGENTS.

President, W. B. Flickner, Erie; vice-presidents, Frank R. Leib, Harrisburg; W. C. Helmbold, Curwensville; Fred W. Groves, Bradford; treasurer, G. F. P. Wanger, Pottstown; corresponding secretary, J. H. Musser, Harrisburg; secretary, Homer M. Hill, Erie.

TEXAS FIRE UNDERWRITERS ASSOCIATION.

President, J. T. Murphy, Dallas; vice-president, Geo. J. Dexter, Dallas.
Executive Committee—J. B. Herford, Dallas; T. J. Munn, Austin; F. H. McElhone, Dallas; J. R. Cravens, R. S. Yocum, Houston; T. A. Manning, J. T. Trezevant, Dallas; D. E. Grove, J. J. Carr.

VERMONT FIRE UNDERWRITERS ASSOCIATION.

President, H. M. McFarland, Hyde Park; first vice-president, General T. E. Alfred, Newport; second vice-president, A. H. Childs, Brattleboro; third vice-president, John Norton; secretary, J. S. Hlekok, Burlington; treasurer, P. F. Blodgett, St. Johnsbury.
Executive Committee—F. E. Alfred, A. D. Tenney, J. G. Brown.

WISCONSIN STATE BOARD OF UNDERWRITERS.

President, L. S. Tuttle, Oshkosh; vice-president, W. L. Steele, Madison; secretary and treasurer, C. E. Norbeck, La Crosse.
Executive Committee—John McClure, St. Paul; John E. Davis, Racine; W. A. Chapman, Milwaukee; Walte Bliven, Chicago; H. A. Nolte, Milwaukee; A. S. Witherbee, Chicago.

ASSOCIATION OF FIRE UNDERWRITERS OF BALTIMORE.

President, Wm. R. Barry; vice-president, R. Emory Warfield; secretary, Wm. Cunningham; treasurer, Geo. E. Taylor; chief inspector, H. G. Balkam.
Executive Committee—W. C. Jenness, chairman; Wm. Smart, C. W. Hatter, Wm. Cunningham, Claude Worthington, H. C. Landis.

BOSTON BOARD OF FIRE UNDERWRITERS.

President, A. M. Bullard; secretary and treasurer, Osborne Howes; assistant secretary, F. C. Goodnow.
Executive Committee—C. E. Guild, F. H. Stevens, H. S. Bean, J. E. Hollis, James Bruerton and H. V. Freeman.

BOSTON FIRE UNDERWRITERS UNION.

President, Geo. P. Field; vice-presidents, Edward Atkinson and A. M. Bullard; secretary, Osborne Howes, 55 Kilby street; treasurer, Charles E. Guild.
Executive Committee—B. B. Whittemore, Geo. W. Reed, Francis Peabody, George R. Rogers, C. H. Hayes and E. D. Blake.

BUFFALO ASSOCIATION OF FIRE UNDERWRITERS.

President, C. B. Armstrong; vice-president, W. J. Sandrock; secretary, Henry Mooney; treasurer, E. A. Hall, 56 Pearl street; assistant secretary, Geo. W. White.

CHICAGO FIRE UNDERWRITERS ASSOCIATION.

President, S. A. Rothermel; vice-president, C. E. Pellett; secretary, R. M. Trimmingham; treasurer, H. J. Ullmann.
Superintendent of Surveys, T. A. Bowden.
Trustees—James Ayars, S. A. Rothermel, O. W. Barrett, Thomas Goodman and R. J. Smith.

CHICAGO BOARD OF FIRE INSURANCE BROKERS.

President, Hugh Martin; vice-president, Chas. A. Dew; secretary, H. A. Eschenberg; treasurer, W. H. Rose.
Directors—A. R. Edwards, Hugh Martin, C. H. Howard, W. H. Rose and W. J. Hensfrest.

UNDERWRITERS ASSOCIATION OF CINCINNATI.

President, F. H. Cloud; vice-president, E. C. Harding; secretary, Charles E. Marshall; treasurer, K. F. Bendort.
Executive Committee—W. H. Calvert, John H. Lord, Frederick Rauh.

CLEVELAND BOARD OF UNDERWRITERS.

President, Thomas H. Geer; vice-president, M. Buchmann; secretary, A. I. Trachten; treasurer, W. B. Maxson; surveyor, H. G. Hopkinson.
Executive Committee—Chairman, Thos. H. Geer, *ex-officio*; M. Buchmann, Belden Seymour, A. W. Neale, J. A. Manchester, C. A. Muermau.

HARTFORD BOARD OF FIRE UNDERWRITERS.

President, James Nichols; vice-president and treasurer, C. C. Kimball; secretary and surveyor, L. A. Dickinson; stamp clerk, Thos. M. Smith.
Executive Committee—Geo. L. Chase, Martin Bennett, D. W. C. Skilton, James U. Taintor, Silas Chapman, Jr.

INSURANCE BROKERS ASSOCIATION OF MONTREAL.

President, E. T. Taylor; vice-president, Gustave Fanteux; secretary and treasurer, Douglas S. Taylor, 180 St. James street.
Executive Committee—George R. Robertson, Frederick M. Cole, R. A. Campbell, N. Picard, A. A. Meilleur.

NEW YORK BOARD OF FIRE UNDERWRITERS.

President, John H. Washburn; vice-president, Mason A. Stone; secretary, William De L. Boughton; assistant secretary, Alfred M. Thorburn; treasurer, Lindley Murray, Jr.
Committee on Finance—F. O. Afield, Henry W. Eaton, Henry E. Bowers, G. B. Edwards, John M. Whiton, M. S. Driggs and F. V. Price.
Committee on Fire Patrol—Benjamin G. Ackerman, William B. Ogden, E. Litchfield, Frank M. Parker, George R. Rhoades, J. Jay Nesbitt and George T. Patterson.
Committee on Laws and Legislation—E. F. Beddall, J. M. Hare, Thos. F. Gaines, W. E. Hutchins, Charles Sewell, T. L. Goodrich and E. R. Kennedy.
Committee on Surveys—George W. Baab, Jr., James M. Hodges, C. L. Chase, A. D. Irving, B. Lockwood, J. C. Hatte, and C. C. Lide.
Committee on Police and Origin of Fires—David Adee, J. R. McCay, James A. Alexander, F. C. Moore, Frank T. Stinson, W. S. Banta and Chas. E. Shade.

TARIFF ASSOCIATION OF NEW YORK.

President, James A. Silvey; vice-president, Edward F. Beddall; secretary and treasurer, W. W. Underhill; manager, F. W. Whiting.

Executive Committee—J. M. Hare, B. G. Ackerman, M. S. Driggs, J. H. Washburn, M. A. Stone, Benoni Lockwood, Samuel P. Biagden.

Committee on Rates—Chas. C. Little, G. W. Hoyt, Harold Herrick, H. J. Ferris, J. J. Courtney, J. M. Hodges, T. J. Gaines.

Committee on Deviation—H. W. Eaton, J. J. Nestell, Lindley Murray, Jr., Thos. F. Goodrich, Geo. W. Jones, J. M. Whiton, Chas. L. Case.

METROPOLITAN BOARD OF FIRE INSURANCE BROKERS, NEW YORK.

President, R. C. Rathbone; vice-president, H. Mosenthal; treasurer, J. H. Rieger; secretary, J. Q. A. Williamson.

Executive Committee—John T. Baker, Edward H. Betts, E. R. Craft, A. Josephy, W. E. Lowe, H. Mosenthal, H. C. Plass, Charles R. Price, Robert C. Rathbone, John H. Rieger, E. R. Satterlee, C. A. Schermerhorn, George H. Smith, J. Q. Aymer Williamson, Wm. H. Seward.

SUBURBAN UNDERWRITERS ASSOCIATION, 44 PINE STREET, NEW YORK.

President, J. W. Barley; secretary and treasurer, Geo. S. A. Young.

Executive Committee—Geo. W. Hoyt, A. M. Burdick, A. H. Wray, M. A. Stone, J. A. Silvey,

J. R. Mullikin, Benoni Lockwood, E. G. Richards, Joseph McCord, Geo. C. Howe.

PHILADELPHIA FIRE UNDERWRITERS ASSOCIATION.

President, R. B. Beath; treasurer, Samuel D. Hawley; secretary, J. W. Grover.

Executive Committee—Atwood Smith, Robert B. Beath, E. L. Ellison, George F. Reger, George Wood, E. B. Clark, A. J. Wright, E. O. Weeks, J. A. Silvey, J. R. Mullikin.

ST. LOUIS BOARD OF FIRE UNDERWRITERS.

President, J. A. Waterworth; vice-president, L. E. Snow; secretary, E. E. Atton; treasurer, J. E. Cowan.

Ways and Means Committee—Lewis E. Snow, H. M. Blossom, Paul Robyn, F. D. Hirschberg, W. D. Hennessey.

Inspections and Improvements Committee—John R. Triplett, George D. Markham, Frank C. Case, S. D. Cahen, Chas. F. Miller.

TORONTO FIRE UNDERWRITERS ASSOCIATION.

President—Jas. G. Thompson; vice-president, John Manghan; secretary and treasurer, Robert McLean.

FIRE PATROLS OF THE UNITED STATES.

The Association of Superintendents and Captains of Fire Patrols, Salvage Corps and Protective Associations of the United States is offered as follows: President, M. J. Curtin, Milwaukee, Wis.; secretary and treasurer, J. F. Pelletier, 706 Wyandotte street, Kansas City, Mo. Annual meeting at Montreal, Can., August 8, 1894.

Below is given a list of cities having fire patrols, as compiled by the above-named association, together with the superintendent's or captain's name of each and its date of organization. For information as to the equipment of the various patrols, the reader is referred to the appendix on Fire Protection and Water Supply in the latter part of this book.

CITY.	Name of Association.	When Organized.	Superintendent or Captain.
Albany, N. Y.	Protective Department.	September 17, 1872.	J. N. Foster.
Boston, Mass.	Protective Department.	1865.	Samuel Abbott, Jr.
Chicago, Ill.	Fire Insurance Patrol.	October 1, 1871.	E. T. Shepherd.
Cincinnati, O.	Salvage Corps.	November 16, 1886.	H. F. Newman.
Kansas City, Mo.	Fire Patrol.	June 1, 1889.	J. F. Pelletier.
Louisville, Ky.	Salvage Corps.	April 14, 1888.	B. F. Pickard.
Milwaukee, Wis.	Fire Insurance Patrol.	December 1, 1886.	M. J. Curtin.
Newark, N. J.	Salvage Corps.	July 1, 1879.	Francis J. Meeker.
New Orleans, La.	Fire Insurance Patrol.	July, 1874.	Jas. R. Bulger.
New York, N. Y.	Fire Patrol.	October, 1839.	A. C. Hull.
Philadelphia, Pa.	Fire Insurance Patrol.	July 15, 1869.	George R. Stillman.
Providence, R. I.	Protective Department.	February 1, 1875.	Chas. H. Swan.
San Francisco, Cal.	Underwriters Fire Patrol.		John F. Comstock.
St. Louis, Mo.	Underwriters Salvage Corps.	July 4, 1874.	Chas. Evans.
Worcester, Mass.	Protective Department.	December 1, 1875.	H. R. Williamson.

STATISTICS OF FIRES FOR 1893 IN AMERICAN CITIES.

The following table, showing statistics of fires in 1893 in American cities having a population of 20,000 or more, is compiled from a report to the National Board of Fire Underwriters. Cities for which no reports were made in the original table of the items named below are enumerated here: Los Angeles, Cal.; Sacramento, Cal.; Denver, Col.; Hartford, Conn.; New Britain, Conn.; Wilmington, Del.; Key West, Fla.; Bloomington, Ill.; Fort Wayne, Ind.; Haverhill, Mass.; Malden, Mass.; Bay City, Mich.; Bayonne City, N. J.; Camden, N. J.; Elizabeth, N. J.; Kingston and Rondout, N. Y.; Long Island City, N. Y.; Yonkers, N. Y.; Allentown, Pa.; Chester, Pa.; Wilkesbarre, Pa.; Fort Worth, Tex.; San Antonio, Tex.

PLACE.	Total No. of Fires.	Total Losses.	Total Insurance Involved.	Total Insurance Loss.	Per Cent of Fires Confined to Building.	No. of Fires to Each 100 Buildings.	PLACE.	Total No. of Fires.	Total Losses.	Total Insurance Involved.	Total Insurance Loss.	Per Cent of Fires Confined to Building.	No. of Fires to Each 100 Buildings.
ALABAMA.							MASSACHUSETTS.						
Birmingham.....	162	\$ 55,835	\$ 127,550	.....	.68	....	Boston.....	1,167	\$ 5,013,790	\$ 18,462,944	\$ 4,651,922	.75	1.66
Mobile.....	90	.....	176,550	22,978	.87	1.08	Brookton.....	82	72,705	842,745	61,927	.85	1.21
Montgomery.....	55	24,205	.....	.....	....	....	Cambridge.....	206	128,052	485,056	108,718	.81	1.81
ARKANSAS.							Chelsea.....	112	44,395	228,250	31,283	.87	1.91
Little Rock.....	78	47,183	275,540	47,183	.95	....	Fall River.....	126	284,279	4,073,064	284,279	.94	....
CALIFORNIA.							Fitchburg.....	47	8,653	54,289	7,411	1.00	....
Oakland.....	122	136,436	.....	.....	....	....	Gloucester.....	40	76,299	144,593	55,576	.98	....
San Francisco.....	555	1,106,866	4,234,481	678,850	.60	1.08	Holyoke.....	102	37,179	832,382	34,066	1.00	.98
COLORADO.							Lawrence.....	107	22,622	209,764	76	.76	....
Pueblo.....	165	.....	568,300	84,444	.74	3-43	Lowell.....	309	91,547	537,990	87,402	.81	....
CONNECTICUT.							Lynn.....	246	163,360	755,985	144,666	.75	2.02
Bridgeport.....	64	.....	735,320	56,083	....	....	New Bedford.....	109	231,375	91,200	99	.99	1.24
Meriden.....	37	6,672	63,250	.....	.92	....	Newton.....	98	54,316	158,550	49,595	.56	1.98
New Haven.....	205	210,592	1,065,633	158,702	.98	2.08	Salem.....	62	179,858	193,035	91,105	.79	1.25
Waterbury.....	29	113,901	.....	107,301	1.00	....	Somerville.....	76	26,654	214,225	26,094	.89	.79
DISTRICT OF COLUMBIA.							Springfield.....	129	500,000	1,037,400	405,400	.99	1.19
Washington.....	537	338,771	.....	209,233	.95	1.03	Taunton.....	85	17,660	301,975	15,687	.67	....
FLORIDA.							Worcester.....	413	203,769	1,436,734	120,446	.85	....
Jacksonville.....	93	38,794	244,300	38,794	.99	....	Waltham.....	76	46,133	144,050	40,549	.54	1.85
GEORGIA.							MICHIGAN.						
Atlanta.....	289	96,234	1,125,345	91,541	.72	....	Detroit.....	578	1,075,022	3,402,627	.....	.87	....
Augusta.....	104	26,827	54,440	19,812	.87	....	Grand Rapids.....	259	162,501	2,389,125	135,666	.94	1.62
Columbus.....	65	37,955	208,124	24,530	.91	1.30	Jackson.....	82	23,019	340,100	21,145	.91	....
Macon.....	51	18,000	260,000	18,000	.96	1.22	Muskegon.....	200	43,164	715,476	41,000	.90	....
MINNESOTA.							Saginaw.....	193	730,809	642,258	.....	.97	....
Duluth.....	142	354,360	1,562,460	.....	....	....	MINNESOTA.						
Minneapolis.....	795	1,509,766	9,083,845	1,562,460	.75	....	Duluth.....	142	354,360	1,562,460	.....	....	....
							Minneapolis.....	795	1,509,766	9,083,845	1,562,460	.75	....

Savannah.....	183	172,986	978,400	161,628	.96	1.98	St. Paul.....	605	667,783	2,395,894	573,884	.82	....
ILLINOIS.							Winona.....	121	30,452	261,175	30,452	.90	....
Aurora.....	70	7,893	71,389	304	.97	....	MISSOURI.						
Chicago.....	5,224	3,149,590	31,320,921	3,679,697	.97	4.29	Kansas City.....	848	719,758	7,599,588	656,112	.74	2.83
Joliet.....	78	27,335	100,651	27,335	.97	....	St. Joseph.....	177	468,757	440,000	440,000	.97	1.13
Peoria.....	....	....	....	206,328	....	....	St. Louis.....	1,048	....	8,545,353	2,130,616	....	1.21
Quincy.....	152	....	....	....	.91	2.03	Springfield.....	104	75,000	60,000	45,000	.90	....
Rochford.....	113	35,590	281,600	32,565	1.00	2.01	MONTANA.						
Springfield.....	81	38,812	117,502	20,948	.86	....	Butte City.....	121	100,000	504,000	88,300	.82	4.02
INDIANA.													
Evansville.....	214	130,000	11,500,000	111,522	.90	4.05	NEBRASKA.						
Indianapolis.....	460	164,105	1,755,900	....	.98	....	Lincoln.....	116	38,668	1,026,520	30,637	.97	....
New Albany.....	108	....	45,633	....	1.00	....	Omaha.....	311	410,586	395,684	....	.99	1.79
South Bend.....	71	....	75,985	8,740	.70	....	NEW HAMPSHIRE.						
Terre Haute.....	155	....	371,600	68,000	.96	2.26	Manchester.....	106	88,448	363,625	71,495	....	....
IOWA.							Naahua.....	41	6,320	....	5,650	.71	....
Burlington.....	106	11,330	112,000	....	.89	....	NEW JERSEY.						
Council Bluffs.....	93	27,137	159,730	....	.81	....	Hoboken.....	108	22,522	422,930	12,522	.85	2.16
Davenport.....	102	41,348	439,130	33,922	.72	....	Jersey City.....	393	197,422	479,876	153,410	.97	....
Des Moines.....	183	95,863	474,120	....	.93	....	Newark.....	307	415,042	4,395,908	348,810	.75	....
Dubuque.....	51	8,000	....	....	1.00	1.31	Paterson.....	257	106,863	988,807	....	.92	1.99
Sioux City.....	165	109,197	1,221,075	66,410	.99	4.97	Trenton.....	104	62,926	60,901	....	.96	....
KANSAS.							NEW YORK.						
Kansas City.....	186	88,627	168,430	66,980	.75	....	Albany.....	490	233,588	1,845,301	199,816	....	....
Leavenworth.....	99	31,355	215,003	30,865	.90	1.05	Auburn.....	44	80,824	30,741	....	.68	....
Topeka.....	118	33,323	287,545	21,669	.96	1.58	Binghamton.....	93	176,871	7,203,461	114,906	.97	1.34
Wichita.....	95	20,000	....	....	.88	....	Brooklyn.....	1,526	1,036,690	7,203,461	....	....	1.37
KENTUCKY.							Buffalo.....	840	....	4,822,858	1,531,260	.99	....
Covington.....	49	506,063	524,135	423,405	.94	....	Chico.....	57	41,327	1,005,900	41,327	.90	1.85
Louisville.....	243	1,024,440	2,437,231	965,754	.82	....	Elmira.....	137	36,827	444,054	36,827	1.00	....
Lexington.....	57	33,000	86,000	26,399	.90	1.02	Newburgh.....	41	36,285	24,704	....	....	....
Newport.....	39	9,613	47,850	8,283	.95	....	New York.....	4,151	5,924,583	84,362,182	5,593,286	.95	3.61
LOUISIANA.							Oswego.....	102	96,022	261,160	....	.80	....
New Orleans.....	324	1,079,426	2,941,978	651,895	.72	....	Poughkeepsie.....	44	20,685	18,734	....	.98	1.26
MAINE.							Rochester.....	199	....	1,875,436	147,024	.97	....
Bangor.....	64	17,912	112,800	17,912	.78	....	Schenectady.....	37	21,865	55,360	....	.84	....
Lewiston.....	69	....	59,029	17,901	....	....	Syracuse.....	236	346,118	1,691,081	336,462	.95	1.31
Portland.....	135	110,591	486,071	....	....	....	Troy.....	....	1,917,391	282,335	....	....	....
MARYLAND.							Utica.....	121	368,452	636,779	276,352	.97	....
Baltimore.....	1,144	1,147,522	5,339,765	985,512	.67	1.20	NORTH CAROLINA.						
							Wilmington.....	49	69,695	127,850	66,265	.76	.85

a For six months ending June 30, 1898. b For year ending May 17, 1898. c Buildings only.

FIRE LOSSES IN NEW YORK.

The following table shows the Insurance Losses in New York city for thirty-seven years ending April 30, 1893, compiled from the Fire Patrol Reports. The figures for 1894 could not be obtained when THE YEAR BOOK went to press.

YEARS.	BUILDINGS.			CONTENTS.		
	Insurance.	Loss.	Ratio of Loss to Insurance.	Insurance.	Loss.	Ratio of Loss to Insurance.
1855.	\$955,864	\$247,167	25.85	\$1,743,620	\$640,272	36.72
1856.	949,800	134,633	14.17	1,805,500	429,273	23.77
1857.	1,400,238	346,037	24.71	3,609,585	1,062,290	29.42
1858.	970,362	133,943	13.80	2,324,275	552,312	23.79
1859.	1,040,275	187,757	18.04	1,313,325	269,866	20.54
1860.	1,691,300	480,458	28.40	2,918,630	1,096,105	37.55
1861.	1,695,575	351,933	20.75	4,496,710	1,042,756	23.18
1862.	1,562,530	341,248	21.83	3,553,031	879,191	24.74
1863.	1,939,461	368,984	19.02	2,701,290	876,227	32.43
1864.	2,311,845	454,299	19.65	5,782,955	1,659,155	28.69
1865.	2,415,380	650,551	26.93	9,481,122	3,673,447	38.74
1866.	2,540,700	837,668	32.96	9,790,087	4,968,924	50.75
1869.	2,419,422	602,809	24.91	5,221,026	2,315,864	39.11
1870.	3,379,041	592,750	17.54	8,211,533	1,989,823	24.23
1871.	4,327,184	554,135	12.80	7,437,943	1,748,220	23.50
1872.	4,589,552	363,838	7.92	6,483,204	1,273,487	19.64
1873.	5,508,915	720,778	13.09	8,695,119	2,735,280	30.74
1874.	3,351,730	300,467	8.96	5,849,859	1,200,041	20.51
1875.	4,319,317	379,153	8.77	8,494,868	2,592,810	28.75
1876.	5,456,811	517,175	9.47	7,585,035	2,677,054	35.29
1877.	5,864,675	379,704	6.47	6,765,351	1,636,360	24.18
1878.	6,332,380	792,797	11.95	6,994,240	1,478,772	20.28
1879.	7,665,395	522,811	6.82	15,370,908	4,361,685	28.37
1880.	5,800,157	477,096	8.22	7,745,498	2,144,834	27.69
1881.	7,371,318	649,774	8.81	9,445,175	1,597,090	16.90
1882.	7,851,057	750,859	9.56	10,681,845	3,447,558	32.27
1883.	10,376,682	769,890	7.41	12,349,183	2,878,020	23.30
1884.	10,749,263	798,269	7.42	13,183,478	2,876,133	21.81
1885.	10,793,747	942,811	7.36	15,009,209	3,204,632	21.35
1886.	12,214,819	588,227	4.81	14,136,043	2,482,656	17.56
1887.	11,623,852	718,244	6.17	13,512,737	2,903,133	21.48
1888.	16,064,601	1,515,169	8.91	18,000,599	4,752,289	25.54
1889.	15,871,686	1,244,923	7.84	14,756,449	3,304,136	22.39
1890.	14,128,161	717,174	5.07	13,985,639	2,509,778	17.94
1891.	13,430,068	1,399,683	9.07	14,527,581	3,881,828	26.72
1892.	18,837,317	1,232,059	6.54	13,751,258	3,558,022	25.87
1893.	19,811,956	1,352,421	6.82	13,471,564	3,070,698	22.34
Totals	\$252,806,436	\$23,415,695	9.26	\$322,686,464	\$82,650,022	25.61

THE SPRINGFIELD FIRE AND MARINE.

THE site upon which the present office of the Springfield Fire and Marine Insurance Company stands, in Springfield, Mass., is of historic interest. It was on that spot that William Pynchon, the founder of the town, located his homestead, which afterward was converted into the Old Pynchon Fort and utilized in resisting the assaults of the Indians. The Springfield Fire and Marine Insurance Company was chartered in 1849, and was formally organized April 9, 1851. At first its capital was only \$150,000, and the premiums in its initial year of business reached but \$38,695. It is a long step from these figures to those indicating its standing to-day. Now the capital is \$1,500,000 and its assets over \$3,500,000, while its premium income has mounted to over one and three-quarters million dollars. The Springfield Fire and Marine has stood up manfully under severe blows, the company having lost heavily in several conflagrations, notably those at Troy, N. Y., in 1862; at Portland, Me., in 1866; at Chicago in 1871 and at Boston in 1872. In consequence of these four fires the company paid out in the neighborhood of \$1,000,000. Since its organization the company has paid cash dividends aggregating \$2,954,542, and losses amounting to \$20,308,510. The company's present officers are: A. J. Wright, president; Sanford J. Hall, secretary; A. W. Damon, assistant secretary; H. M. Gates, treasurer; Western Department, Chicago, Ill., A. J. Harding, manager; Pacific Coast Department, San Francisco, Cal., A. Dugan, general agent. It has agencies in all prominent localities throughout the United States.

CHINA.

Below is given a list of the fire and marine insurance companies operating in China, together with the names and addresses of their agents there and the extent of the lines written:

Offices.	Limit.	Agents.	Addresses.
Alliance Fire Insurance Company.....	Tls. 45,000	Jardine, Matheson & Co...	Shanghai.
Atlas Assurance Company.....		Ed. Schellhass & Co.....	"
Baloise Fire Ins. Co. of Baloise (Switzerland).....		Overbeck & Co.....	"
Caledonian Fire Insurance Company.....		Dyce & Co.....	"
China Fire, Limited †.....			Hong Kong.
Commercial Union Insurance Co. (Fire)....	Tls. 75,000	{ Lavers & Co.....	Shanghai.
Commercial Union Assur. Co. (Life Dept.)...		{ J. A. Ballard.....	"
Economic Fire Office, Limited.....		{ Gibbs, Livingston & Co.....	"
Fire Insurance Company of 1877, Hamburg.....		{ American Trading Co.....	"
General Fire Assurance Co. of London.....		{ Kirchner & Boger.....	"
Guardian Fire and Life Assurance Office....		{ Kirchner & Boger.....	"
Hamburg-Bremen Fire Insurance Company.....	Tls. 30,000	{ Wisner & Co.....	"
Hamburg-Magdeburg Fire Insurance Co....	Tls. 35,000	{ Carlowitz & Co.....	"
Hanseatic Fire Insurance Co. of Hamburg..	Tls. 50,000	{ Arnhold, Karberg & Co.....	"
Hong Kong Fire, Limited §.....		{ Aug. Ehlers.....	"
Imperial Insurance Co., Limited (Fire)....	Tls. 50,000	{ Arnhold, Karberg & Co.....	Hong Kong.
Khean Guan Ins. Co., Limited, of Penang..		{ Gibbs, Livingston & Co.....	Shanghai.
Lancashire Insurance Co. of Manchester....	£10,000	{ Meyer, Lemke & Co.....	"
Lion Fire Insurance Company, Limited. }	£10,000	{ Lim Ho-Cheow & Co.....	"
Liverpool and London and Globe Fire }	or Tls. 40,000 *	{ Arnhold, Karberg & Co.....	"
and Life Insurance Company..... }	or Tls. 30,000	{ Forrester & Co.....	"
London and Lancashire Fire Insurance Co.	Tls. 70,000	{ Turnbull, Howie & Co.....	"
London and Lancashire Life Assurance Co.		{ Butterfield & Swire.....	"
London Assurance Corporation (Fire).....		{ C. & J. Trading Co., Ltd..	"
London & Provincial Fire Ins. Co., Ltd..		{ Melchers & Co.....	"
Manchester Fire Insurance Company.....		{ Brand Brothers & Co.....	"
Mannheim Insurance Company, Limited....		{ Ilbert & Co.....	"
Mannheim Reinsurance Co., Mannheim.....		{ Ed. Schellhass & Co.....	"
Marine & General Mut. Life Assur. Society.		{ Arnhold, Karberg & Co.....	"
Meiji Fire Ins. Co., Ltd., of Tokio, Japan..		{ Reuter, Brockelmann & Co.	"
Netherlands Fire Insurance Company.....		{ R. A. Ritchie.....	"
New Zealand Fire Insurance Company.....		{ Mitsui Bussan Kaisha.....	"
North British and Mercantile Ins. Co.....	£10,000	{ Overbeck & Co.....	"
North German Fire Insurance Company.....		{ W. D. Graham, Manager..	"
North Queensland Insurance Co., Limited..		{ J. A. Ballard.....	"
Northern Assur. Co., Fire & Life }	European. £20,000 *	{ R. Telge & Co.....	"
	Chinese. £4,000 †	{ Gibbs, Livingston & Co.....	"
	European. £10,000	{ Hewett & Co.....	"
Norwich Union Fire Ins. Soc. }	or Tls. 40,000	{ Turner & Co.....	"
	Chinese. £2,000	{ Alfred Dent & Co.....	"
	or Tls. 8,000		
Pacific Mutual Insurance Co. of California..		{ Reuter, Brockelmann & Co..	"
Phoenix Fire Office.....		{ Westall, Little & Co.....	"
Positive Government Security Life Assur- ance Company, Limited.....	£1,000	{ Drysdale, Ringer & Co....	"
Queen Fire Insurance Co. of Liverpool....	£15,000	{ Frazer & Co.....	"
Reliance Marine Insurance Co., Limited....	£5,000	{ Butterfield & Swire.....	"
Royal Exchange Fire Assurance of London..	£15,000	{ Iveson & Co.....	"
Royal Insurance Company of Liverpool.. }	or Tls. 50,000	{ Dyce & Co.....	"
Scottish Imperial Insurance Co., for Life...		{ Welch, Lewis & Co.....	"
Scottish Union and National Insurance Company (Fire and Life).....		{ C. J. Dudgeon.....	"
Straits Fire Insurance Company, Limited...		{ W. T. Phipps.....	"
Sun Insurance Office.....	£10,000		
Transatlantic Fire Insurance Company, Limited, of Hamburg.....		{ Siemssen & Co.....	"
Union Assurance Society, London.....		{ Barlow & Co.....	"

* On first class risks. † On Chinese buildings. ‡ Established 1869; assets, 1,506,537 Mexican dollars; premiums, \$214,076; losses, \$68,114. § Established 1868; assets, 2,041,358 Mexican dollars; premiums, \$368,232; losses, \$115,082.

For further particulars concerning some companies in this table, see page 204.

AUSTRALASIAN FIRE, MARINE AND MISCELLANEOUS INSURANCE COMPANIES.

NAME AND LOCATION OF COMPANY.	Chairman of Board of Directors.	Principal Officer.	Class of Business Transacted.	Date of Report.	Capital Subscribed.	Capital Paid up.	Assets.	Reserve Funds.	Unpaid Capital.
Australasian Alliance Assc. Co., Melbourne	Wm. Smith.....	E. S. Watson.....	L. F. M. & F. G.	Aug. 31, 1894.	250,000	125,000	600,097	£200,000	£24,793
Australasian Mat. L. S. (L'd), Melbourne	Thos. Cooper, J. P.....	Wm. F. Salmon.....	Live Stock.....	Jan. 31, 1894.	11,097	4,439	4,837	.....	5
Australasian Plate Glass (L'd), Melbourne	John L. Roberts.....	Geo. T. Wyleigh.....	Plate Glass.....	Dec. 1, 1893.	20,000	4,000	8,302	2,000	1,502
Australian Mutual Fire, Sydney	Hon. Geo. Thornton, M.L.C.	Walter Church.....	Fire.....	Mar. 31, 1893.	.....	12,500	113,049	87,750	796
British and Colonial (L'd), Sydney	Sydney Burdett, M. P.....	J. J. Allen.....	F. M., A., G.	June 30, 1893.	50,000	12,500	16,759	.....	.....
City Mutual Fire (L'd), Sydney	John See, M. L. A.....	Robert Kerr.....	Fire.....	Dec. 31, 1893.	150,000	15,000	28,698	10,000	500
Colonial Mutual Fire (L'd), Melbourne	T. Jaques Martin, J. P.....	Wm. L. Jack.....	F. M., G., etc	Sept. 30, 1893.	100,000	87,289	30,163	.....	110,662
Cornwall F. & M. (L'd) Launceston, Tas	.....	M. Tyson.....	Fire, Marine.	Sept. 30, 1893.	175,000	80,000	90,898	.....	4,821
Farmers Co-operative Fire and Marine of Canterbury (L'd), Christchurch, N. Z.	.....	Robt. W. Brown.....	Fire, Marine.	Dec. 31, 1893.	60,555	37,370	40,141	1,000	210
Guardian Acc. and Guarantee of Australasia (L'd), Melbourne.	A. C. Macdonald.....	Arthur Earl Lewis.....	Acc., Guar.....	May 31, 1893.	50,000	10,000	13,510	1,000	27
Indemn. F. & M. of Australasia (L'd), Mel.	W. G. Sprigg.....	Robt. C. Anderson.....	Fire, Marine.	June 30, 1893.	125,000	25,000	34,985	4,500	2,565
Mercantile Mutual (L'd) Sydney	G. A. Mansfield.....	Keiso King.....	Fire, Guar.....	Dec. 31, 1893.	150,000	15,000	63,888	40,000	5,389
Mut. Fire of Tasmania (L'd), Launceston	Jas. Barclay.....	W. A. Weymouth.....	Fire.....	Sept. 30, 1893.	187,500	37,500	56,400	10,000	3,805
Mutual Union (L'd), Hobart, Tas.	.....	H. Cane.....	Fire, Marine.	Dec. 31, 1893.	50,000	25,000	30,046	.....	1,268
National of Australasia (L'd), Melbourne	Thomas Alston, J. P.....	Mayhew A. Ridge.....	Fire.....	Dec. 31, 1893.	182,500	18,250	86,420	47,500	14,097
Nat'l F. and M. of New Zealand, Dunedin	J. M. Ritchie.....	H. E. Williams.....	Fire, Marine.	Sept. 30, 1893.	200,000	98,038	241,976	66,706	14,860
New Zealand, Auckland	Dr. J. L. Campbell.....	Warwick Weston.....	Fire, Marine.	Nov. 30, 1893.	1,000,000	200,000	533,033	239,819	19,203
New Zealand Accident, Auckland	D. B. Cruickshank.....	P. A. Edmiston.....	Accident.....	Dec. 31, 1893.	20,000	5,000	26,119	10,000	431
North Queensland (L'd), Sydney	James Burns.....	C. Danvers.....	Marine, Fire.	Sept. 30, 1893.	113,750	53,437	69,754	8,500	607
Queensland Mutual (L'd), Brisbane.	R. Porter, J. P.....	L. Jagger.....	F. M., G., P.	Sept. 30, 1893.	61,908	15,477	19,358	.....	1,906
South Australian (L'd), Adelaide	George Scarfe, J. P.....	Thos. D. DeCean.....	G. E. L., A.	June 30, 1893.	1,000,000	68,500	138,028	50,000	21,086
South British F. & M. of N. Z., Auckland	T. Peacock.....	James Kirker.....	Fire, Marine.	Aug. 31, 1893.	1,227,932	64,628	196,065	116,000	6,045
Southern (L'd), Melbourne.	D. Moore.....	Chas. Rennie.....	Marine.....	Dec. 31, 1893.	500,000	50,000	134,864	50,000	28,965
Standard Fire and Marine of New Zealand, Dunedin.	John Reid.....	Thos. R. Fisher.....	Fire, Marine.	Dec. 31, 1893.	1,000,000	75,000	135,204	30,000	4,469
United (L'd) Sydney	James Ewan.....	Thos. M. Tinley.....	Fire, Marine.	Sept. 30, 1893.	341,610	68,226	151,606	64,500	8,866
United Australian Mutual, Melbourne.	R. J. Harvey.....	A. Webster.....	Fire.....	Dec. 31, 1893.	251,260	31,408	65,089	.....	2,465
Victoria (L'd) Melbourne.	E. Miller.....	W. Lee Archer.....	Fire, Marine.	Dec. 31, 1893.	898,770	50,178	153,812	70,000	12,177
Victoria General Insurance and Guarantee (L'd), Melbourne.	E. Miller.....	Edward Woods.....	Fld., G., Sur.	Dec. 31, 1893.	80,000	20,000	42,963	5,000	12,728

* In addition to which the life assurance fund amounts to £3,90,077. † Balance at debit of profit and loss.

CHINA AND STRAITS COMPANIES.

NAME AND LOCATION OF COMPANY.	Class of Business Transacted.	Date of Report.	Capital Subscribed.	Capital Paid up.	Assets.	Reserve Funds.	Unappropriated Profits.
			\$	\$	\$	\$	\$
Canton, Hong Kong.....		Dec. 31, 1892.	2,500,000	500,000	1,450,267	850,000	32,363
China Trad's, Hong K'g.	Marine.....	Apr. 30, 1893.	2,000,000	600,000	1,906,651	750,000	207,615
North China, Shanghai.		Dec. 30, 1892.	500,000	125,000	434,635	639,448	635,696
Straits Fire, Singapore...	Fire.....	Dec. 31, 1893.	2,000,000	400,000	3643,032	\$159,437	\$1,430
Straits, Singapore.....	Marine.....	Dec. 31, 1892.	3,000,000	600,000	1,127,226	50,000	9,487
Union of Canton.....		June 30, 1893.	2,500,000	250,000	2,592,145	904,000	126,402

TERM BUSINESS AND RATES.

The following is a summary of the business of the stock fire insurance companies operating in New York State, arranged by terms and years, as embodied in the annual address of D. W. C. Skilton, president of the National Board of Fire Underwriters:

OUTSTANDING RISKS, DECEMBER 31, 1893, CLASSIFIED BY YEARS.

YEAR.	ONE YEAR OR LESS.			TWO YEARS.		
	Amount Covered.	Premiums Charged.	Rate on \$100.	Amount Covered.	Premiums Charged.	Rate on \$100.
1889.....	.....	.....	.....	.....	.....	.....
1890.....	.....	.....	.....	.....	.....	.....
1891.....	.....	.....	.....	.....	.....	.....
1892.....	.....	.....	.....	\$86,223,395	\$679,427	.7879
1893.....	\$7,438,275,328	\$92,026,620	1.2372	76,008,751	656,623	.8636
Totals.....	\$7,438,275,328	\$92,026,620	1.2372	\$162,232,147	\$1,336,040	.8235

YEAR.	THREE YEARS.			FOUR YEARS.		
	Amount Covered.	Premiums Charged.	Rate on \$100.	Amount Covered.	Premiums Charged.	Rate on \$100.
1889.....	.....	.....	.....	.....	.....	.....
1890.....	.....	.....	.....	.....	.....	.....
1891.....	\$1,854,514,787	\$15,844,940	.8543	42,216,546	374,654	.8874
1892.....	2,062,428,327	18,267,004	.8857	46,478,104	429,026	.9231
1893.....	2,270,456,750	20,745,218	.9137	48,158,706	448,004	.9303
Totals.....	\$6,187,399,864	\$54,858,162	.8866	\$173,554,184	\$1,565,969	.9022

YEAR.	FIVE YEARS.			TOTALS.		
	Amount Covered.	Premiums Charged.	Rate on \$100.	Amount Covered.	Premiums Charged.	Rate on \$100.
1889.....	\$465,037,555	\$5,693,739	1.2244	\$465,037,555	\$5,693,739	1.2244
1890.....	545,527,895	6,509,130	1.1932	582,229,323	6,823,415	1.1719
1891.....	591,860,241	7,259,985	1.2266	2,488,591,374	23,479,579	.9434
1892.....	682,784,029	8,631,410	1.2641	2,877,912,856	28,006,867	.9732
1893.....	647,331,532	8,023,303	1.2394	10,480,230,467	121,900,758	1.1632
Totals.....	\$2,932,541,252	\$36,117,567	1.2316	\$16,894,009,775	\$185,904,358	1.1004

OUTSTANDING BUSINESS AT END OF EACH YEAR SINCE 1877.

YEAR.	ONE YEAR OR LESS.			TWO YEARS.		
	Amount Covered.	Premiums Charged.	Rate on \$100.	Amount Covered.	Premiums Charged.	Rate on \$100.
1877.....	\$4,189,336.972	\$39,140,116	.9343	\$36,476,236	\$314,917	.8633
1878.....	4,101,586,639	36,545,052	.8909	58,421,602	460,420	.7881
1879.....	4,340,839,068	37,969,771	.8747	68,882,024	499,191	.7274
1880.....	4,594,108,032	41,489,369	.9031	54,420,253	442,258	.8127
1881.....	4,995,280,779	46,586,997	.9326	56,833,632	469,914	.8268
1882.....	5,240,973,510	50,744,164	.9682	90,958,374	558,752	.7874
1883.....	5,504,510,013	59,045,560	1.0611	81,057,700	629,498	.7766
1884.....	5,396,179,917	57,533,802	1.0662	86,007,206	679,944	.7905
1885.....	5,458,151,259	59,201,581	1.0846	92,817,845	778,720	.8390
1886.....	5,766,152,632	63,117,590	1.0946	85,444,540	717,163	.8393
1887.....	5,888,577,550	63,497,462	1.0783	122,050,098	963,256	.7892
1888.....	6,085,712,188	65,764,703	1.0797	142,833,092	1,077,947	.7546
1889.....	6,279,086,941	68,970,742	1.0984	130,195,979	1,037,889	.7894
1890.....	6,843,728,682	74,158,631	1.0835	124,699,719	1,012,702	.8121
1891.....	7,031,994,214	76,385,806	1.0862	144,285,182	1,084,536	.7517
1892.....	7,555,282,157	86,033,963	1.1387	160,701,827	1,280,290	.7593
1893.....	7,438,275,322	92,026,620	1.2372	162,233,147	1,336,040	.8235

YEAR.	THREE YEARS.			FOUR YEARS.		
	Amount Covered.	Premiums Charged.	Rate on \$100.	Amount Covered.	Premiums Charged.	Rate on \$100.
1877.....	\$1,117,294,681	\$11,628,821	1.0408	\$51,122,312	\$548,930	1.0737
1878.....	1,214,861,058	12,159,734	1.0009	82,203,646	876,776	1.0658
1879.....	1,358,520,866	13,154,709	.9683	82,560,515	877,145	1.0624
1880.....	1,528,178,928	14,320,502	.9371	84,333,019	872,588	1.0347
1881.....	1,760,038,721	16,249,315	.9232	88,211,469	914,836	1.0371
1882.....	2,052,460,376	18,690,626	.9106	96,574,923	984,374	1.0192
1883.....	2,243,365,184	21,401,869	.9133	103,652,403	1,048,651	1.0116
1884.....	2,555,177,433	24,212,330	.9119	101,369,794	1,015,225	1.0014
1885.....	2,985,800,866	27,204,642	.9111	97,686,208	982,918	1.0061
1886.....	3,302,859,618	30,111,799	.9116	101,078,468	1,011,007	1.0002
1887.....	3,629,327,399	32,849,539	.9051	121,773,181	1,195,734	.9819
1888.....	4,120,132,056	36,534,918	.8867	125,477,790	1,195,539	.9528
1889.....	4,519,767,939	39,985,772	.8847	132,910,211	1,231,320	.9264
1890.....	5,073,549,127	44,623,281	.8795	149,243,542	1,310,418	.8780
1891.....	5,505,574,706	47,695,581	.8663	155,392,741	1,355,912	.8726
1892.....	5,888,452,078	51,803,004	.8797	171,807,960	1,508,747	.9130
1893.....	6,187,399,864	54,858,162	.8866	173,554,184	1,505,969	.9022

YEAR.	FIVE YEARS OR MORE.			TOTALS.		
	Amount Covered.	Premiums Charged.	Rate on \$100.	Amount Covered.	Premiums Charged.	Rate on \$100.
1877.....	\$516,176,223	\$7,507,815	1.4545	\$5,910,406,434	\$59,140,579	1.0006
1878.....	640,526,845	8,720,516	1.3614	6,097,659,790	58,762,498	.9636
1879.....	692,275,192	8,970,011	1.2957	6,543,077,665	61,470,827	.9394
1880.....	762,994,229	9,618,296	1.2605	7,024,034,461	66,743,013	.9562
1881.....	976,923,122	12,748,512	1.3050	7,877,287,723	76,979,574	.9771
1882.....	1,083,529,841	12,828,895	1.1840	8,544,497,024	83,866,811	.9808
1883.....	1,309,282,203	15,363,973	1.1735	9,401,867,503	97,889,551	1.0369
1884.....	1,512,365,460	17,979,391	1.1888	9,751,099,810	101,426,692	1.0100
1885.....	1,731,974,061	21,169,449	1.2223	10,366,430,239	109,337,310	1.0547
1886.....	1,934,404,415	23,906,543	1.2358	11,189,939,673	118,864,102	1.0622
1887.....	2,073,141,331	26,020,430	1.2551	11,834,869,559	124,526,401	1.0521
1888.....	2,213,614,583	27,307,076	1.2331	12,687,769,709	131,820,123	1.0390
1889.....	2,351,972,004	28,758,244	1.2227	13,413,933,074	139,973,907	1.0434
1890.....	2,669,023,461	32,121,258	1.2038	14,860,244,531	153,236,290	1.0311
1891.....	2,862,387,148	33,928,137	1.1854	15,699,631,991	160,449,972	1.0220
1892.....	2,910,383,354	35,391,223	1.2160	16,686,627,376	176,017,337	1.0547
1893.....	2,932,541,252	36,117,567	1.2316	16,894,003,775	185,904,358	1.0404

RISKS WRITTEN AND IN FORCE.

Below will be found a statement of the amounts of fire and marine risks written or renewed during the year 1893, and the risks in force December 31, 1893, of the respective companies named :

NAMES OF COMPANIES.	Risks Written or Renewed in 1893.	Risks in Force Dec. 31, 1893.	NAMES OF COMPANIES.	Risks Written or Renewed in 1893.	Risks in Force Dec. 31, 1893.
	\$	\$		\$	\$
Abington Mut., Mass.....	3,419,174	8,448,721	Cotton & Wool Mut., Mass	29,353,414	28,291,182
Ætna, Hartford.....	440,010,642	477,600,028	Danbury Mut., Conn.....	214,755	703,720
Agricultural, Watertown..	129,241,352	280,401,700	Dayton, Dayton.....	10,712,532	9,580,071
Alamo, San Antonio.....	13,333,505	7,835,926	Dedham Mut., Mass.....	1,554,983	4,100,479
Albany, Albany.....	14,958,768	17,526,542	Delaware Co. Mut., Pa....	256,131	6,864,708
Allegheny, Pittsburgh....	1,567,102	2,633,221	Delaware, Philadelphia....	120,222,203	*62,072,304
Allemanina, Pittsburgh....	24,635,922	23,954,254	Des Moines, Des Moines..	16,757,622	27,305,682
American, Baltimore.....	3,768,929	4,517,890	Detroit F. and M.....	30,172,504	28,070,312
American, Boston.....	36,075,968	38,664,015	Dorchester Mut., Mass....	9,405,227	27,176,880
American, New York.....	159,298,036	123,842,537	Dubuque F. and M., Iowa.	4,708,942	7,273,331
American, Newark.....	74,484,080	109,435,006	Dutchess Co. Mut., Po'ksie	12,102,358	18,553,343
American, Philadelphia....	288,557,665	*226,532,083	Dwelling House, Boston..	18,757,563	30,301,027
American Cent'l, St. Louis	79,355,126	101,206,693	Eagle, New York.....	34,792,380	49,523,584
Arkwright Mut., Mass.....	94,477,428	91,732,217	Empire City, New York..	11,409,122	11,511,677
Arlington, Washington...	4,060,906	5,043,155	Equitable, Nashville.....	10,158,390	5,708,742
Armenia, Pittsburgh.....	7,325,760	8,591,193	Equitable F. and M., Prov.	26,669,375	30,444,135
Artisans, Pittsburgh.....	2,671,935	3,671,510	Equitable Mar., Prov'c'tn.	566,920	353,066
Associated Firemens, Balt.	4,078,768	5,297,413	Eric Co. Mut., Buffalo...	5,188,258	11,032,583
Atlanta Home, Atlanta....	33,147,452	19,250,957	Essex Mut., Massachusetts	1,540,197	2,580,873
Atlantic Mut. Mar., N. Y.	423,644,227	107,407,898	Eureka F. and M., Cin....	10,466,007	10,428,826
Atlas, London.....	49,794,201	40,233,274	Fall Riv. Mfrs. Mut., Mass	35,682,757	34,385,449
Atlas Mutual, Boston.....	32,067,242	27,395,939	Farmers, Cedar Rapids...	13,290,007	39,184,814
Attleborough Mut., Mass.	452,235	1,989,231	Farmers, York.....	33,178,680	*52,796,849
Baltimore, Baltimore....	9,773,571	12,181,573	Farmers and Mer. Lincoln.	11,261,697	22,221,172
Barnstable Co. Mut., Mass	1,747,760	7,050,883	Farmers (Mut.), Bethlehem	1,220,343	5,778,893
Bay State Mut., Boston...	746,568	551,714	Farragut, New York.....	17,640,031	14,223,808
Ben Franklin, Allegheny...	2,269,312	2,991,632	Fidelity F. and M., Cin'd.	3,122,601	3,669,143
Berkshire Mutual, Mass...	2,083,314	8,109,777	Fire Assoc., Philadelphia.	210,405,432	*334,995,855
Birmingham, Pittsburgh..	2,032,612	4,614,932	Fire Ins. Co. Co. of Phila.	18,033,421	*27,758,475
Bluff City, Memphis.....	1,662,409	1,333,012	Fire Ins. Co. N'h'n Co. Pa	1,824,918	6,761,068
Boston Mfrs. Mut., Mass...	108,205,817	105,084,562	Firemans Fund, San Fran.	196,789,521	165,277,115
Boston Marine, Boston....	62,383,599	10,528,814	Firemens, Baltimore.....	23,770,494	*21,415,096
Boylston, Boston.....	37,464,656	40,998,441	Firemens, Boston.....	15,951,291	20,874,985
British America, Toronto.	95,895,560	79,752,556	Firemens, Newark.....	45,693,176	68,236,272
British and For. Mar., Liv.	368,972,899	24,996,539	F. of Northampton Co., Pa	1,824,011	6,761,068
Broadway, New York.....	43,059,865	38,663,865	First Nat'l, Worcester...	15,865,620	15,613,037
Bucks County Cont'ship,			Fitchburg Mut., Mass....	11,385,312	25,168,551
Morrisville, Pa.....	247,314	2,458,983	Forest City, Rockford, Ill.	6,123,738	23,005,974
Buffalo German, Buffalo..	51,191,330	66,022,467	Frankford Mutual, Pa....	1,562,243	3,661,310
Caledonian, Edinburgh...	194,780,538	234,568,855	Franklin, Evansville.....		1,254,945
Cambrian Mutual, Pa.....	172,620	517,913	Franklin, Louisville.....	10,458,858	3,127,968
Cambridge Mut., Mass....	4,542,272	14,393,314	Franklin, Philadelphia....	53,800,611	*140,709,308
Camden Fire, New Jersey	1,351,782	*4,581,177	Franklin, Washington....	4,181,932	4,867,965
Capital, Concord.....	27,058,344	20,767,198	Franklin Mut., Mass.....	1,094,851	2,851,152
Cash, Pittsburgh.....	731,967	1,403,564	General Marine, Dresden.	13,706,951	655,498
China Mut. Mar., Boston.	17,279,010	3,349,461	Georgia Home, Columbus	23,738,559	28,129,159
Cincinnati, Cincinnati...	7,851,179	8,141,076	German, Baltimore.....	21,117,484	32,635,218
Citizens, New York.....	86,969,331	69,350,810	German, Freeport, Ill....	93,799,513	121,525,229
Citizens, St. Louis.....	8,141,673	9,945,490	German, Louisville.....	1,682,523	3,123,627
Citizens, Pittsburgh....	30,222,818	32,486,072	German, Peoria.....	10,130,219	13,378,173
Citizens Mutual, Mass....	7,091,230	25,237,449	German, Pittsburgh.....	27,288,869	34,485,232
City, Pittsburgh.....	1,948,181	3,215,981	German, Wheeling.....	7,840,148	9,651,191
Columbia, Dayton.....	9,893,470	10,640,220	German-American, N. Y....	410,567,744	539,038,637
Columbia, Washington...	1,022,700		German-American, Pitts'bg	5,230,941	5,779,779
Columbian Louisville.....	88,298,580	45,648,437	German-American, Wash.	3,392,705	
Commerce, Albany.....	16,368,859	16,912,599	German Nat'l, Louisville..	686,800	1,955,109
Commercial, Cincinnati...	3,729,028	5,108,722	German Wash. Mut., L'vie	308,595	4,843,273
Commercial Union, Lon...	330,403,826	*384,867,319	Germania, New York.....	180,844,832	257,031,409
Commercial Union, N. Y.	10,277,571	6,000	German Sect'y, Louisville.	944,858	1,925,000
Commonwealth, N. Y....	23,325,166	17,921,395	Girard F. and M., Phila...	50,137,457	*90,500,676
Commonwealth Mut., Bos.	5,253,805	4,945,145	Glen Cove Mut., Glen Cove	8,597,958	7,972,818
Concordia, Milwaukee....	46,562,195	62,598,684	Glens Falls, Glens Falls...	78,144,103	131,587,467
Connecticut, Hartford...	150,882,390	171,143,074	Globe, New York.....	10,566,960	10,566,960
Continental, New York...	395,792,419	600,320,794	Grand Rapids Fire.....	17,321,634	17,486,725
Cooper, Dayton.....	13,790,272	21,633,687	Granite State, Portsmouth	69,012,536	48,218,225
Corcoran, Washington...		3,264,290	Greenwich, New York....	224,145,182	232,866,198

* Includes perpetual risks.

RISKS WRITTEN AND IN FORCE—Continued.

NAMES OF COMPANIES.	Risks Written or Renewed in 1898.	Risks in Force Dec. 31, 1898.	NAMES OF COMPANIES.	Risks Written or Renewed in 1898.	Risks in Force Dec. 31, 1898.
	\$	\$		\$	\$
Guarantee Co. of N.A., Mon.	53,457,993	42,463,107	Mutual Assur., Phila.	82,300	9,556,705
Guardian, London	141,043,244	213,374,343	Mutual Benefit, Louisville.	280,849	1,140,932
Hamburg-Bremen	112,753,481	123,568,266	Mut. Fire, Coatesville, Pa.	4,772,474	28,879,502
Hamilton, New York	14,644,278	14,301,973	Mut. Fire, Germantown, Pa.	2,174,052	16,867,104
Hampshire Mut., Mass.	950,201	4,030,423	Mutual Fire, Reading, Pa.	966,557	3,595,737
Hanover, New York	145,066,362	112,180,878	Mutual Protection, Mass.	351,706	1,304,853
Harmonia Mut., Buffalo ..	1,313,520	4,983,077	Nassau, Brooklyn	10,959,816	12,809,886
Hartford Co. Mut., Hart.	8,731,785	25,005,033	National, Allegheny		6,048,411
Hartford Fire, Hartford ..	393,876,928	520,743,851	National, Baltimore	3,564,558	4,218,341
Hawkeye, Des Moines	15,620,431	42,921,725	National, Cincinnati	6,593,038	6,408,341
Hernando, Memphis	641,621	1,423,107	National, Elizabeth	1,474,307	2,241,806
Hingham Mut., Mass.	5,898,099	26,625,201	National, Hartford	205,993,323	245,390,228
Holyoke Mut., Salem, Mass.	10,706,785	37,413,827	National Met., Washingt'n	3,681,955	
Home, Baltimore	12,877,600	11,691,666	National Union, Wash.	3,470,021	
Home, New York	752,997,899	851,141,790	New Brunswick, N. J.	415,303	734,503
Home, Omaha	9,711,560	21,083,664	New England, Rutland	1,221,105	2,361,372
Home Mut., San Fran.	31,042,009	31,712,615	New Hampshire, Manch'r	104,244,300	111,458,463
Humboldt, Allegheny	3,551,088	6,551,357	N. Lon. Co. Mut., Norw'h	2,832,829	7,771,987
Imperial, London	134,765,884	188,908,046	New York Bowery	64,320,172	39,221,996
Indem. Mut. Mar., Lon.	42,077,248	2,582,364	New York Fire	9,888,325	7,915,555
Industrial Mut., Mass.	10,865,840	9,062,886	N. Y. Mut. Marine, N. Y.	15,163,031	124,475
Ins. Co. N. Am., Phila.	1,013,978,869	597,836,484	Newark Fire	24,004,037	29,171,430
Ins. Co. of State of Pa., Phil	36,676,097	35,401,157	Newburyport Mut., Mass.	152,725	677,975
Iowa Fire, Des Moines	3,345,323	2,285,622	Niagara, New York	191,499,171	210,318,265
Iron City Mut., Pa.	2,884,437	8,157,542	Norfolk F. & M., Virginia	536,357	
Jefferson, Philadelphia	† 1,959,972	* 4,835,614	Norfolk Mutual, Mass.	5,035,787	18,986,176
Johnstown Mut., Pa.	10,100	42,600	North American, Boston ..	21,010,920	23,518,062
Jordan Mut., Pa.	403,865	1,111,050	N. British & Mercan., Lon	268,587,898	334,160,786
Keystone Mut., Pa.	14,742,350	13,362,963	Northern, London	138,187,700	164,690,217
Kings County, Brooklyn ..	8,505,967	8,852,406	North River, New York ..	26,988,293	28,698,688
Lancashire, Manchester ..	255,436,643	222,548,087	Northwestern Nat., Milw.	61,356,225	107,307,133
Lebanon Mut., Pa.	2,716,798	8,222,463	Norwalk, Norwalk	4,519,914	3,992,969
Lion, London	73,415,304	73,050,278	Norwich Union, Norwich ..	180,112,024	213,499,912
Litchfield Mut., Conn.	1,372,727	4,103,040	Oakland Home, Oakland ..	66,272,018	33,617,189
Liv. and Lon. and Globe ..	730,093,729	* 856,240,889	Ohio, Dayton	8,280,009	5,162,998
London and Lancashire ..	272,908,106	354,227,609	Old Town, Baltimore	2,057,213	2,710,193
Lon. Assur. (Fire), Lon.	130,350,651	* 182,419,714	Omaha Fire	5,005,020	12,387,895
Lon. Assur. (Marine), Lon	73,095,271	2,572,371	Orient, Hartford	152,405,918	139,049,358
Louisv. German Mut., Ky.	159,850	2,624,840	Pacific Fire, New York ..	49,833,385	56,218,231
Louisville, Louisville	16,061,884	13,216,045	Palatine, Manchester	247,097,427	197,074,239
Lowell Mutual, Mass.	1,650,433	4,921,852	Paper Mill Mut., Mass.	5,304,264	5,011,345
Lumbermens, Phila.	19,315,676	* 28,119,261	Penn Mutual, Pa.	1,957,179	16,130,221
Lynn Mutual, Mass.	385,450	1,908,132	Penn Township Mut., Pa.	1,096,772	7,052,693
Manchester, England	177,011,757	174,618,419	Pennsylvania Fire, Phila.	179,930,933	* 246,060,353
Mannheim (Marine), Ger.	40,742,133	1,171,641	Pennsylvania Millers Mut.	443,200	1,483,000
Manfrs. & Merch., Pittsb'h	21,672,904	17,816,886	Peoples, Pittsburgh	4,586,289	5,681,079
Man. & Mer. Mut., Rockf.	5,760,527	5,239,962	Peoples, Washington	1,090,333	2,987,485
Marine, London	139,265,760	11,536,944	Peter Cooper, New York ..	7,236,066	13,125,551
Maryland, Baltimore	5,911,505	5,348,066	Petersb'g S. & I., Pet'rs'b'g	2,727,814	3,109,050
Massachusetts Mutual	9,349,540	22,410,134	Phenix, Brooklyn	599,643,640	671,577,660
Mechanics, Philadelphia	20,691,524	* 38,680,098	Phila. Contributionship ..	460,950	14,309,042
Mech. & Trad., N. Orl'ns	54,296,654	34,998,353	Phila. Manfrs. Mutual	16,656,179	15,971,021
Mercantile F. & M., Boston	24,117,533	23,784,861	Phoenix, Hartford	339,388,301	349,019,438
Merchants, Newark	88,760,999	* 107,722,310	Phenix, London	336,632,320	300,664,207
Merchants, Providence	29,285,391	31,418,961	Phoenix F. & M., Memphis	1,570,943	1,106,293
Mer. & Far. Mut., Worc'r	7,072,936	23,420,534	Pittsburgh, Pittsburgh	1,678,566	2,633,316
Mer. & Man., Cincinnati ..	4,822,365	5,992,604	Planters & Mer., Mobile ..	2,049,783	653,748
Merrimack Mut., Mass.	7,323,003	28,048,474	Portsmouth, N. H.	3,261,831	3,762,464
Miami Valley, Dayton	2,735,670	2,108,970	Portsmouth, Virginia	1,514,058	1,657,942
Michigan F. & M., Detroit	45,220,222	42,441,430	Potomac, Georgetown	3,122,814	
Middlesex Mutual, Mass.	9,863,936	34,434,344	Protection Mut., Chicago ..	5,589,589	
Middlesex Mut., Middlet'n	11,715,136	37,630,064	Providence Mut., R. I.	4,591,170	20,213,808
Milford Mutual, Mass.	822,863	1,573,117	Prov.-Washington, Prov.	221,233,657	95,365,223
Millers & Man., Minneap.		6,497,661	Prussian National, Stettin.	43,893,680	35,568,257
Milwaukee Mech., Milwke	74,818,844	103,583,951	Queen, New York	235,408,881	282,740,392
Minnesota, Minneapolis ..	6,743,980	5,800,411	Quincy Mutual, Mass.	10,109,924	33,687,691
Monongahela, Pittsburgh ..	1,338,461	1,915,678	Reading, Reading	38,369,943	* 44,729,165
Mr. Holly, Mt. Holly, N.J.	824,917	* 3,572,348	Reliance, Philadelphia	32,201,570	* 34,036,640
Mutual, Albany	1,168,578	3,196,196	Reliance (Marine), Liv'rp'l	26,559,594	884,122
Mutual, Massachusetts	1,116,700	4,672,363	Richmond Co. Mut., Rich.		1,230,112
Mutual, New York	135,379,849	113,166,724	Rochester German, Roch'r	65,641,818	72,268,279

* Includes perpetual risks. † Term risks.

RISKS WRITTEN AND IN FORCE—Continued.

NAMES OF COMPANIES.	Risks Written or Renewed in 1898.	Risks in Force Dec. 31, 1898.	NAMES OF COMPANIES.	Risks Written or Renewed in 1898.	Risks in Force Dec. 31, 1898.
	\$	\$		\$	\$
Royal, Liverpool.....	717,934,355	*799,525,862	Teutonia F. & M., Dayton	7,736,035	12,642,608
Rubber Mfrs. Mut., Mass.	19,842,879	17,889,976	Thames & Mersey Mar.,		
Rutgers, New York.....	12,558,522	12,262,567	Liverpool.....	64,165,000	1,793,911
Rutland, Vermont.....		1,488,282	Tolland Co. Mut., Conn.	3,210,521	8,728,470
St. Paul F. and M.....	136,804,126	128,744,108	Traders, Chicago.....	56,878,010	62,113,903
Saginaw Val. F. & M., Sag.	3,385,558	2,008,470	Traders and Mechanics		
Salem Mutual, Mass.....	1,102,057	1,995,067	Mutual, Massachusetts..	11,347,874	37,835,660
Scot. Union & Nat., Ed'g	239,062,047	236,747,823	Transatlantic, Hamburg..	41,107,653	46,960,505
Sea, Liverpool.....	66,170,494	6,557,607	Union (Marine), Bangor..	3,996,661	1,195,785
Security, Cincinnati.....	8,891,983	8,801,864	Union, Buffalo.....	4,356,924	4,597,046
Security, Davenport.....	6,392,209	12,712,311	Union, London.....	39,138,935	34,523,867
Security, New Haven.....	70,143,838	58,483,557	Union, Philadelphia.....	33,892,411	*35,689,910
Shawnee, Topeka.....	5,281,609	6,421,129	Union, Pittsburgh.....	1,532,932	2,690,912
South Danvers Mut, Mass.	177,595	1,152,200	Union Marine, Liverpool..	83,419,632	3,323,713
Southern, New Orleans..	29,813,102	15,280,667	United Firemngs, Phila...	33,003,612	*65,445,473
Spring Garden, Phila....	48,757,536	*61,490,448	United States, New York..	43,873,488	35,668,698
Springfield F. and M.....	123,165,402	199,754,693	U. S. Lloyds, New York..	226,666,447	6,298,336
Standard, Trenton.....	3,097,139	6,597,159	Virginia Farmers, Norfolk	374,125	249,780
Standard Marine, Liverp'l	54,700,542	3,646,304	Virginia F. & M., Richm'd	24,056,660	27,685,698
Standard Mutual, Pa.....	3,715,430	8,883,704	Virginia State, Richmond.	15,162,829	21,322,075
State, Des Moines.....		39,113,316	Wachusett Mutual, Mass..	2,863,671	2,803,022
State, Nashville.....	2,883,667	3,782,786	Washington, Cincinnati..	4,267,674	5,285,097
State, Salem, Ore.....	4,975,480	11,877,438	Washington Co. Mut., Pa.	538,500	2,283,685
State Mutual, Hartford...	1,429,766	2,892,321	Wellfleet Marine, Mass...	688,708	419,890
State Mutual, Pa.....	168,300	603,350	Westchester, New York...	134,092,617	184,100,223
Stuyvesant, New York....	12,955,001	16,735,821	Western, Louisville.....	1,203,376	2,359,070
Suffolk Co. Mut., Southold		2,782,818	Western, Pittsburgh.....	14,903,300	16,388,203
Sun, London.....	228,476,565	291,045,149	Western, Toronto.....	229,146,479	123,184,614
Sun, San Francisco.....	28,161,100	14,776,425	Williamsb'gh City, B'klyn	77,337,249	116,062,225
Sun Mutual, New Orleans	62,171,324	33,316,176	Windham Co. Mutual,		
Susquehanna Mutual, Pa.	793,597	1,266,154	Brooklyn, Conn.....	1,641,323	6,277,863
Switzerland Mar., Zurich.	50,707,947	1,436,628	Worcester Mfrs. Mutual,		
Tanners Mutual, Pa.....	2,659,845	2,659,845	Massachusetts.....	29,876,275	28,926,645
Teutonia, Allegheny.....	8,852,200	10,580,290	Worcester Mutual, Mass..	10,180,065	38,137,831
Teutonia, New Orleans...	38,224,413	18,054,384	York County Mut., Pa....	122,180	443,250
Teutonia, Philadelphia...	† 3,865,695	*5,117,863			

* Includes perpetual risks. † Term risks.

FIRES IN LONDON, ENGLAND.

From the annual report of the chief officer of the Metropolitan Fire Brigade for the year 1892, we extract the following:

The number of calls for fires, or supposed fires, received during the year was 4440. Of these 1043 were false alarms, 260 proved to be only chimney alarms, and 3146 were calls for fires, of which 177 resulted in serious, and 2969 in slight damages. These figures refer to the regular calls for fires, or supposed fires, involving the turning out of firemen, fire engines, fire escapes and horses. They do not include trifling damages by fire, which were not sufficiently important to require the attendance of firemen; neither do they include the ordinary calls for chimneys on fire, which are separately mentioned below. It may be of interest to state that of the 3146 fires, 1318 were extinguished by persons not belonging to the brigade; 677 were extinguished by the use of buckets; 448 by hand pumps; 518 by hydrants and fire plugs; 4 by manual fire engines; 143 by land steam fire engines, and 16 by river steam fire engines; 23 were beaten out with sticks and 3 were the result of explosions. The fires of 1892 compared with those of 1891, show an increase of 254, and compared with the average of the last ten years, an increase of 855. The proportion of serious fires was only about six per cent of the total number. The number of fires in London during the last ten years, and the proportion of serious to slight losses are shown by the following table:

YEAR.	NUMBER OF FIRES.			PERCENTAGES		YEAR.	NUMBER OF FIRES.			PERCENTAGES.	
	Serious.	Slight.	Total.	Serious.	Slight.		Serious.	Slight.	Total.	Serious.	Slight.
1883.....	184	1,960	2,144	9	91	1888.....	121	1,867	1,988	6	94
1884.....	194	2,095	2,289	9	91	1889.....	153	2,185	2,338	7	93
1885.....	160	2,110	2,270	7	98	1890.....	153	2,402	2,555	6	94
1886.....	151	1,998	2,149	7	93	1891.....	193	2,699	2,892	7	93
1887.....	175	2,188	2,363	7	93	1892.....	177	2,999	3,176	6	94

WHAT IS REQUIRED OF COMPANIES DOING BUSINESS IN THE DOMINION.

The several acts passed by the Canadian Parliament relating to insurance in the Dominion were amended and consolidated by a general statute, passed during the session of 1886, which contains all the existing provisions of the regulation and supervision of insurance companies carrying on business in Canada. Under this act no company can do business in the Dominion without obtaining a license from the Minister of Finance, or being registered in the office of the Superintendent of Insurance. In order to obtain such a license every company must deposit with the Receiver General as follows:

Canadian Fire and Inland Marine Companies.....	\$50,000	Canadian Inland Marine Companies.....	\$50,000
Foreign Fire and Inland Marine Companies.....	100,000	Foreign Inland Marine Companies.....	100,000
Canadian Fire Companies.....	50,000	Life Insurance Companies, both Canadian and Foreign.....	50,000
Foreign Fire Companies.....	100,000		

It is provided, however, that in case of any such company incorporated elsewhere than within Canada when its liabilities to policy-holders in Canada, including the full reserve or reinsurance value of all its Canadian policies, exceed its assets in Canada, then the company will be required to make good the deficit by adding to its deposits with the Receiver General, or by creating a special trust in the hands of two or more persons resident in Canada.

Any company incorporated in Canada, and transacting business of life insurance upon the co-operative or assessment plan, may, at the discretion of the Minister of Finance, be exempted from making a deposit with the Receiver General. Such company must register its corporate name in the office of the Superintendent of Insurance and conform to other requirements of the act.

Companies doing ocean marine business exclusively, are not subject to the act.

Companies other than life, fire or marine, in order to do business in Canada are required to obtain a license or permission from the Minister of Finance, and the Treasury Board must in each case decide what shall be the amount of deposit.

Every company is required to file in the office of the Minister of Finance, annually, at the beginning of each year, a sworn statement of its condition and affairs.

The policy liabilities of life insurance companies doing business in Canada are to be valued according to the Table of Mortality of the Institute of Actuaries, H. M., at $4\frac{1}{2}$ per cent interest.

Toward defraying the expenses of the office of the Superintendent of Insurance, a sum, which from fire and marine companies must not exceed eight thousand dollars, shall be annually contributed by the companies, which sum shall be assessed *pro rata* upon the gross premiums received by each during the preceding year, such sum to be paid upon the issue of the annual license.

INSURANCE WRITTEN AND IN FORCE IN CANADA. FIRE RISKS.

NAME OF COMPANY.	YEAR ENDING DECEMBER 31, 1898.		YEAR ENDING DECEMBER 31, 1899.		YEAR ENDING DECEMBER 31, 1900.		YEAR ENDING DECEMBER 31, 1901.		YEAR ENDING DECEMBER 31, 1902.	
	Risks Written.	Risks in Force.	Risks Written.	Risks in Force.	Risks Written.	Risks in Force.	Risks Written.	Risks in Force.	Risks Written.	Risks in Force.
<i>Canadian Companies.</i>										
British America.....	22,313,539	\$ 27,189,465	19,274,110	\$ 24,139,662	20,537,121	\$ 24,684,600	20,537,121	\$ 24,684,600	20,537,121	\$ 24,684,600
Citizens	None.	None.	1,838,130	None.	21,162,298	28,438,834	21,162,298	28,438,834	21,162,298	28,438,834
Eastern	26,676,063	19,831,172	21,295,569	17,296,416	12,824,744	10,320,280	12,824,744	10,320,280	12,824,744	10,320,280
London Mutual	15,553,095	43,191,301	14,673,345	43,670,555	14,614,521	44,716,242	14,614,521	44,716,242	14,614,521	44,716,242
Mercantile.....	12,947,686	14,214,773	10,091,666	11,910,421	.....	.....	.....	.....	.....	.....
Quebec.....	9,626,026	8,584,795	10,550,214	9,157,272	10,408,219	9,008,469	10,408,219	9,008,469	10,408,219	9,008,469
Royal Canadian	36,669,280	41,603,839	34,842,807	42,380,705	19,833,691	20,932,414	19,833,691	20,932,414	19,833,691	20,932,414
Western .....	.....	.....	.....	.....	36,563,080	39,675,500	36,563,080	39,675,500	36,563,080	39,675,500
Totals.....	123,785,683	154,614,280	112,566,165	148,557,131	135,943,674	177,785,359	135,943,674	177,785,359	135,943,674	177,785,359
<i>British Companies.</i>										
Alliance	21,768,271	24,195,018	21,265,029	23,493,055	.....	.....	.....	.....	.....	.....
Atlas	8,634,952	8,600,795	7,770,331	7,767,231	5,811,074	6,420,235	5,811,074	6,420,235	5,811,074	6,420,235
Caledonian.....	14,100,394	15,701,369	11,539,588	14,480,575	9,809,216	13,561,531	9,809,216	13,561,531	9,809,216	13,561,531
City of London	None.	None.	4,399,936	4,091,881	11,485,602	13,779,951	11,485,602	13,779,951	11,485,602	13,779,951
Commercial Union.....	34,947,757	40,910,737	34,936,475	40,941,881	39,914,434	37,969,650	39,914,434	37,969,650	39,914,434	37,969,650
Emoloyers Liability.....	116,399	87,499	6,340,912	6,134,861	5,535,417	5,301,206	5,535,417	5,301,206	5,535,417	5,301,206
Fire Insurance Association.....	11,868,962	15,227,258	10,770,791	14,677,910	10,600,696	14,188,727	10,600,696	14,188,727	10,600,696	14,188,727
Glasgow and London.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Guardian	28,944,434	37,400,004	29,592,330	38,505,525	18,304,039	21,176,105	18,304,039	21,176,105	18,304,039	21,176,105
Imperial.....	18,700,310	23,889,694	19,287,999	24,835,337	19,262,641	24,440,228	19,262,641	24,440,228	19,262,641	24,440,228
Lancashire.....	33,597,342	39,052,140	25,654,913	32,399,558	23,113,340	29,203,866	23,113,340	29,203,866	23,113,340	29,203,866
Liverpool and London and Globe.....	33,707,054	49,021,658	39,149,991	46,717,356	30,259,049	44,030,534	30,259,049	44,030,534	30,259,049	44,030,534
London and Lancashire	18,040,428	20,915,650	17,059,644	22,577,187	17,119,142	16,949,089	17,119,142	16,949,089	17,119,142	16,949,089
London Assurance.....	13,592,999	14,915,200	13,474,373	14,960,300	13,051,228	12,318,140	13,051,228	12,318,140	13,051,228	12,318,140
Manchester.....	12,592,339	11,600,946	12,070,027	10,120,321	10,113,390	7,533,883	10,113,390	7,533,883	10,113,390	7,533,883
National, Ireland.....	8,634,952	8,600,795	8,444,851	8,432,826	7,095,188	7,980,833	7,095,188	7,980,833	7,095,188	7,980,833
North British and Mercantile.....	40,474,585	59,626,021	40,621,000	59,159,329	37,400,076	40,318,491	37,400,076	40,318,491	37,400,076	40,318,491
Northern	17,858,332	21,369,262	17,618,744	21,109,163	17,447,468	15,842,360	17,447,468	15,842,360	17,447,468	15,842,360
Norwich Union.....	14,171,905	16,917,826	12,999,552	15,824,360	11,303,629	14,539,358	11,303,629	14,539,358	11,303,629	14,539,358

Phoenix	26,556,588	31,300,510	26,206,187	29,025,917	23,252,700	24,828,508	22,581,633	25,157,120	21,447,750	24,531,682
Queen	.....	.....	.....	.....	20,402,600	21,130,050	26,821,827	27,820,501	24,931,859	25,316,896
Royal	58,430,891	84,076,506	56,792,860	81,624,755	52,836,595	78,836,188	56,385,108	79,122,171	54,390,799	78,037,513
Scottish Union and National	16,474,713	16,016,770	16,016,770	16,045,654	15,602,904	15,831,219	14,254,913	15,427,966	13,910,566	14,828,312
Sun	9,000,931	8,480,568	4,469,778	3,869,631	.....	.....	.....	.....	.....	.....
Union	11,050,019	10,084,456	9,205,115	7,454,137	6,984,031	4,982,315	1,016,966	943,250	.....	.....
United	14,810,275	17,268,994	28,499,695	20,105,224	11,844,595	10,487,246	12,886,632	.....	.....	.....
Totals	458,203,814	561,840,939	466,900,791	549,223,123	411,748,053	497,550,395	427,931,622	474,884,419	403,227,656	468,379,580
<i>American Companies.</i>										
Ætna	16,057,637	15,797,891	15,007,628	14,363,414	14,752,493	11,677,546	13,452,137	10,615,951	12,354,960	9,650,865
Agricultural	7,758,052	19,224,529	8,049,992	21,027,859	8,822,122	23,594,519	8,274,112	22,427,592	8,028,600	22,548,377
Connecticut	3,200,000	3,780,000	3,500,000	3,850,000	3,600,000	4,100,000	4,100,000	4,100,000	4,628,500	4,485,700
Hartford	13,460,695	15,364,160	14,895,760	16,181,198	15,557,910	15,810,928	13,915,613	14,090,423	11,875,320	11,922,095
Insurance Company of North America	8,277,549	6,150,290	6,994,328	5,222,840	5,736,092	3,889,983	3,564,865	2,103,338	385,985	355,260
Phoenix, Brooklyn	11,204,431	12,483,629	11,443,629	12,597,623	11,008,600	11,287,022	9,499,707	9,961,945	9,245,076	8,312,959
Phoenix, Hartford	20,550,328	19,229,638	21,800,771	20,913,821	12,437,926	10,458,003	4,840,191	3,804,191	.....	.....
Queen	25,043,515	28,591,282	25,026,613	28,563,063	3,811,462	3,448,439	.....	.....	.....	.....
Totals	105,564,192	120,638,075	107,708,732	123,629,818	75,726,695	84,266,437	57,646,959	67,103,440	46,518,461	57,275,186
Grand totals	687,553,689	837,093,204	687,175,688	821,410,072	623,418,422	759,602,191	620,723,945	720,679,621	572,782,104	684,538,378

INLAND MARINE RISKS.

<i>Canadian Companies.</i>										
British America	5,646,766	None.	5,065,734	None.	6,752,529	None.	3,249,276	None.	2,973,059	None.
Royal Canadian	.....	.....	.....	None.	223,034	None.	15,828,486	None.	16,153,647	66,200
Western	6,901,056	None.	5,137,203	None.	6,679,859	None.	6,416,132	28,334	3,203,997	None.
<i>British Companies.</i>										
British and Foreign Marine	3,254,614	38,000	3,021,410	None.	3,747,474	None.	3,490,955	42,000	2,757,234	33,000
London Assurance	519,365	None.	516,618	None.	472,089	None.	369,744	None.	.....	.....
<i>American Company.</i>										
Ætna	2,156,387	None.	1,417,632	None.	132,359	None.	90,929	None.	32,593	None.
Totals	18,458,188	38,000	15,168,597	None.	18,007,344	None.	29,445,516	70,334	25,180,530	99,200

* Not including \$31,804,816 reinsured from the Glasgow and London Insurance Company.

FIRE AND MARINE INSURANCE COMPANIES IN CANADA.

The following tables present a comparative exhibit of receipts and disbursements from 1889 to 1893, inclusive, together with the capital, assets, liabilities and surplus at the end of each year, of all fire and marine insurance companies doing business in the Dominion of Canada:

NAME AND LOCATION OF COMPANY, WITH NAMES OF OFFICERS.	Year.	Capital Subscribed for.	Capital Paid up.	Total Assets.	Total Liabilities Except Capital.	Net Surplus.	Net Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses.	Total Disbursements.
<i>Canadian Companies.</i>													
BRITISH AMERICA, Toronto.....	1893	\$750,000	\$750,000	1,399,046	\$839,427	(1)	1,192,764	\$79,040	1,271,804	\$767,196	\$38,429	\$440,756	1,246,381
Geo. A. Cox, Gov.	1892	500,000	500,000	1,019,901	628,558	(1)	782,395	32,287	814,682	575,279	34,829	284,097	804,205
P. H. Sims, Sec.	1891	500,000	500,000	1,079,248	666,638	(1)	767,063	38,961	806,024	562,140	34,829	271,445	868,414
	1890	500,000	500,000	1,159,826	610,799	\$49,097	802,065	35,904	837,069	501,908	34,822	276,447	815,177
	1889	500,000	500,000	1,174,139	626,069	48,070	827,204	40,760	867,964	544,388	34,835	265,799	844,953
<i>Eastern, Halifax, N. S.</i>													
EASTERN, Halifax, N. S.	1893	1,000,000	250,000	333,749	197,575	(1)	264,511	12,648	277,159	188,314	None.	72,881	261,195
John Doall, Pres. Charles C. Hole,	1892	1,000,000	250,000	330,691	133,159	(1)	190,663	11,993	202,656	119,835	None.	62,996	182,831
Asst. Sec. Chas. D. Cory, Man. Dir.	1891	1,000,000	250,000	293,953	90,261	(1)	119,364	11,356	130,719	73,162	15,000	47,584	135,746
	1890	1,000,000	250,000	293,334	70,055	(1)	99,777	9,867	109,645	35,297	12,690	38,777	86,764
	1889	926,600	231,650	240,941	19,452	(1)	27,938	1,378	29,316	200	None.	27,602	27,802
<i>London Mutual, London, Ont.</i>													
LONDON MUTUAL, London, Ont.	1893	Mutual.	Mutual.	356,110	314,010	42,100	122,772	4,288	127,060	99,088	.....	40,689	139,777
Thomas E. Robson, Pres.	1892	Mutual.	Mutual.	357,672	279,786	77,882	128,513	4,960	133,473	96,262	.....	39,344	135,666
D. C. Macdonald, Sec.	1891	Mutual.	Mutual.	373,178	285,006	88,082	131,737	3,370	131,737	86,710	.....	39,086	126,666
	1890	Mutual.	Mutual.	383,278	316,101	67,177	131,881	4,667	136,548	95,952	.....	41,225	137,177
	1889	Mutual.	Mutual.	384,815	310,746	74,068	131,666	3,471	135,167	94,388	.....	40,661	133,049
<i>Mercantile Fire, Montreal, P. Q.</i>													
MERCANTILE FIRE, Montreal, P. Q.	1893	200,000	40,000	152,873	95,644	17,229	129,379	6,371	135,750	81,686	4,000	42,748	128,434
I. E. Bowman, M. P., Pres.	1892	200,000	40,000	139,133	77,926	21,207	98,585	6,735	105,320	82,370	4,000	35,231	121,601
James Lockie, Sec.													
<i>Quebec, Quebec.</i>													
QUÉBEC, Quebec.	1893	225,000	99,900	249,056	109,469	32,667	167,897	10,735	178,632	124,191	2,474	52,322	178,667
Edwin Jones, Pres.	1892	225,000	99,900	239,738	99,686	40,132	156,371	11,828	168,199	120,714	9,862	47,351	177,997
William W. Welch, Sec.	1891	225,000	99,900	238,526	87,621	50,985	137,718	10,137	147,855	101,799	9,907	42,663	154,299
	1890	225,000	99,900	238,434	77,442	61,072	127,318	9,977	137,295	61,151	10,220	34,465	150,836
	1889	225,000	99,540	208,768	62,972	46,276	105,628	10,105	115,733	75,014	10,252	28,163	113,430
<i>Western, Toronto.</i>													
WESTERN, Toronto.	1893	2,000,000	1,000,000	2,445,280	1,433,794	11,485	2,270,057	229,301	2,499,358	1,628,134	67,260	735,784	2,441,478
Hon. A. M. Smith, Pres.	1892	1,000,000	600,000	2,013,047	1,371,569	41,478	2,139,825	70,165	2,209,990	1,293,972	51,680	707,240	2,052,892
J. J. Kenny, Managing Director.	1891	1,000,000	500,000	1,637,738	1,062,577	75,161	1,697,009	43,431	1,740,440	1,167,380	49,958	577,150	1,794,488
C. C. Foster, Secretary.	1890	1,000,000	500,000	1,556,534	896,071	160,463	1,656,511	45,224	1,701,735	1,008,393	49,958	518,275	1,576,626
	1889	1,000,000	500,000	1,522,255	900,543	101,712	1,686,933	41,606	1,728,539	1,175,548	50,000	599,738	1,735,286

† Capital Impaired.

BUSINESS AND STANDING OF BRITISH COMPANIES.

NAME OF COMPANY AND CHIEF AGENT IN CANADA, TOGETHER WITH LOCATION OF CANADIAN HEAD OFFICE.	Year.	Total Assets in Canada.	Total Liabilities in Canada.	Net Surplus.	Net Cash Premiums Received.	Interest and Other Receipts.	Total Income.	Paid for Losses.	Expenses.	Total Disbursements.
<i>Figures of Canadian Branch.</i>										
ALLIANCE &.....	1893	\$337,459	\$159,103	\$178,266	\$203,641	\$9,334	\$212,975	\$177,903	\$55,967	\$33,870
Geo. H. McHenry, Chief Agent, Montreal.	1892	356,938	114,118	243,155	288,241	10,718	298,959	115,399	97,067	212,466
ATLAS	1893	127,950	61,681	66,269	100,301	3,818	104,119	76,220	29,390	105,510
Matthew C. Hinshaw, Chief Agent, Montreal.	1892	125,560	54,789	72,791	92,890	3,747	96,638	53,611	25,179	78,790
BRITISH AND FOREIGN MARINE.....	1891	115,090	44,073	71,017	58,162	3,747	61,909	44,945	19,521	64,466
E. L. Bond, Chief Agent, Montreal.	1890	114,191	39,505	74,626	63,701	3,747	67,448	45,657	16,830	62,487
.....	1889	115,286	32,206	83,081	55,945	3,747	59,692	31,835	17,681	49,516
.....	1893	112,097	716	111,381	16,001	4,480	20,481	14,626	3,802	13,428
.....	1892	116,968	3,779	113,189	15,318	4,480	19,798	11,388	3,187	14,575
.....	1891	119,226	3,624	115,602	20,621	4,480	25,101	7,790	4,030	11,820
.....	1890	115,360	231	115,129	16,712	4,480	21,192	2,361	3,691	6,052
.....	1889	119,801	1,253	118,548	14,192	4,480	18,672	1,063	2,702	3,765
CALEDONIAN	1893	145,951	106,847	39,104	133,021	5,561	138,582	97,500	37,225	134,815
Laussing Lewis, Manager, Montreal.	1892	135,664	85,569	49,495	112,084	5,560	117,643	99,888	33,517	93,405
.....	1891	137,581	74,694	62,888	100,990	5,474	106,410	84,273	26,218	110,491
.....	1890	143,070	77,578	65,492	103,689	5,000	108,689	73,415	27,470	100,885
.....	1889	140,369	81,638	58,731	107,905	5,000	112,905	72,645	27,577	100,222
COMMERCIAL UNION.....	1893	362,287	311,143	51,643	364,276	10,748	375,024	253,659	101,108	354,767
Evans & McGregor, General Agents, Montreal.	1892	298,953	270,731	27,321	357,747	9,597	367,254	269,795	101,095	390,890
.....	1891	287,483	248,610	38,873	359,153	10,121	369,274	267,597	90,589	298,116
.....	1890	276,306	233,528	42,778	318,697	6,837	325,534	151,640	89,485	241,125
.....	1889	266,179	201,326	64,853	305,678	6,835	312,513	176,701	79,494	256,195
EMPLOYERS LIABILITY.....	1893	105,671	8,647	97,024	9,128	None.	9,128	53,423	5,228	58,651
Fred. Stanciliffe, Chief Agent, Montreal.	1892	123,185	54,224	68,960	76,958	None.	76,958	51,649	22,517	74,166
.....	1891	125,790	43,279	82,512	68,352	None.	68,352	42,420	18,885	61,305
.....	1890	131,944	39,190	92,754	61,730	None.	61,730	37,012	20,921	57,933
.....	1889	129,705	29,018	100,687	54,574	None.	54,574	28,566	15,158	43,724
FIRE INSURANCE ASSOCIATION *	1893	127,901	82,569	35,333	119,693	4,000	123,693	82,427	36,710	119,138
John Kennedy, Chief Agent, Montreal.	1892	119,244	88,220	30,324	105,216	7,077	112,293	92,722	34,165	126,888
.....	1891	123,586	83,876	39,709	103,367	4,000	107,367	67,424	31,761	99,187
.....	1890	122,053	85,692	36,361	113,900	4,000	117,900	61,930	32,808	94,738
.....	1889	125,673	82,218	43,455	109,642	4,000	113,642	57,397	30,821	88,218

* Business transferred to the Manchester Fire, January, 1894. † This company ceased doing the business of fire reinsurance in Canada in 1893. § Reinsured business of the Royal Canadian in January, 1892.

BUSINESS AND STANDING OF BRITISH COMPANIES—Continued.

NAME OF COMPANY AND CHIEF AGENT IN CANADA, TOGETHER WITH LOCATION OF CANADIAN HEAD OFFICE.	Year.	Total Assets in Canada.	Total Liabilities in Canada.	Net Surplus.	Net Cash Premiums Received.	Interest and Other Receipts.	Total Income.	Paid for Losses.	Expenses.	Total Disbursements.
<i>Figures of Canadian Branch.</i>										
GUARDIAN [†] E. P. Heaton, Manager, Montreal.	1893 1892 1891 1890 1889	\$387,679 334,394 194,018 144,241 149,797	\$219,121 214,517 133,793 139,672 131,459	\$168,558 119,887 61,224 11,869 18,337	\$294,310 371,476 186,595 195,007 191,448	\$10,911 7,408 5,305 5,345 4,331	\$307,221 378,884 185,870 146,793 198,779	\$172,147 193,029 154,623 146,793 115,694	\$98,286 135,297 40,415 51,081 54,468	\$270,433 328,326 201,038 197,844 168,162
IMPERIAL..... E. D. Lacy, Chief Agent, Montreal.	1893 1892 1891 1890 1889	608,593 613,117 538,169 520,226 520,581	146,724 156,427 147,125 143,413 144,521	461,869 456,690 391,044 376,814 376,059	199,792 201,177 206,574 211,895 218,135	15,554 14,238 13,614 11,669 14,258	266,346 251,415 202,138 232,594 234,393	161,072 93,039 91,774 101,411 91,828	61,711 61,998 58,891 69,950 69,911	222,783 155,037 150,664 161,361 161,739
LANCASHIRE..... J. G. Thompson, Chief Agent, Toronto.	1893 1892 1891 1890 1889	240,572 246,747 228,838 171,843 179,746	201,197 217,758 194,787 179,519 166,364	39,375 28,989 36,059 (1) 13,382	259,563 285,920 254,233 253,229 223,197	7,766 7,842 6,967 6,053 6,052	267,323 293,762 261,200 259,282 229,249	196,318 173,592 186,579 136,195 116,750	69,073 70,596 65,071 67,023 55,068	265,391 244,188 245,620 203,218 171,818
LIVERPOOL AND LONDON AND GLOBE..... G. F. C. Smith, Chief Agent, Montreal.	1893 1892 1891 1890 1889	1,443,949 1,408,923 1,489,571 1,403,493 1,131,270	369,186 369,186 344,985 313,119 292,682	1,054,257 1,129,737 1,144,586 1,090,374 838,588	323,872 312,472 287,909 279,594 257,022	61,931 59,845 66,174 51,432 44,079	385,803 372,317 354,083 331,026 301,101	281,337 202,829 166,644 106,639 95,579	96,580 90,409 82,521 74,901 64,919	377,917 293,238 249,164 181,540 166,498
LONDON AND LANCASHIRE FIRE..... Alfred Wright, Chief Agent, Toronto.	1893 1892 1891 1890 1889	213,404 210,835 192,137 172,911 127,244	134,136 135,260 129,208 109,901 103,867	79,268 75,575 62,999 63,410 23,441	194,053 196,308 179,204 167,692 153,148	7,910 7,440 1,800 4,637 4,361	201,963 197,748 174,094 174,322 157,528	95,406 106,277 71,450 103,102 40,284	51,231 49,084 45,584 44,182 38,068	146,637 156,261 117,004 147,284 78,332
LONDON ASSURANCE..... E. A. Lilly, Chief Agent, Montreal.	1893 1892 1891 1890 1889	184,028 178,783 176,899 178,709 186,161	86,466 88,652 81,032 71,618 72,770	97,592 90,131 95,857 107,091 107,391	109,253 105,498 91,877 88,568 72,673	6,686 6,686 6,686 6,731 6,686	112,933 112,178 98,567 95,299 79,353	75,476 74,823 33,279 39,100 24,178	35,740 33,307 32,379 32,193 24,117	111,216 83,139 65,658 71,293 48,295
MANCHESTER..... James Boomer, Toronto.	1893 1892 1891 1890	186,824 120,435 134,977 124,599	93,315 81,465 74,439 44,465	33,509 47,970 62,538 86,044	118,940 121,220 96,309 53,067	3,644 3,732 3,767 3,644	122,584 124,961 100,076 56,701	109,692 79,519 47,525 6,700	41,399 38,247 31,656 22,399	151,091 117,766 79,181 29,099

NATIONAL of Ireland..... Matthew C. Hinshaw, Montreal.	1893 1894 1891 1890 1889	125,808 124,514 116,193 117,648 116,576	61,681 60,451 54,511 47,588 41,920	64,127 90,476 61,682 70,060 74,656	100,301 90,476 74,116 75,138 77,053	4,077 4,006 4,006 4,006 4,006	104,378 94,482 78,123 76,144 81,060	77,817 61,713 24,717 20,936 20,537	29,391 24,717 24,036 20,537 24,401	107,208 86,430 84,278 71,309 61,658
NORTH BRITISH AND MERCANTILE Thomas Davidson, General Agent, Montreal.	1893 1892 1891 1890 1889	3,643,306 3,401,036 2,953,488 2,547,786 1,769,834	943,458 924,255 893,339 923,882 546,968	2,699,848 2,476,781 2,070,149 1,637,904 1,222,867	383,663 380,393 338,018 313,247 307,680	128,862 121,929 100,356 75,393 61,870	512,595 502,322 388,343 369,530 369,530	339,652 240,402 246,459 174,088 199,930	108,867 111,028 99,101 89,562 83,642	448,478 345,551 264,550 263,572 263,572
NORTHERN Robert W. Tyre, General Agent, Montreal.	1893 1892 1891 1890 1889	238,049 234,134 236,445 234,287 233,793	137,979 122,437 127,797 120,654 125,885	100,070 111,697 108,648 104,634 107,997	172,826 170,128 174,564 179,523 170,604	12,580 12,580 12,580 12,580 12,580	185,406 182,768 187,141 192,103 183,184	121,612 101,738 101,091 126,609 86,775	45,133 43,616 45,068 44,589 43,534	166,745 145,354 146,159 171,198 130,309
NORWICH UNION Alexander Dixon, Toronto.	1893 1892 1891 1890 1889	166,593 158,259 151,471 150,600 165,580	110,847 98,331 84,102 82,263 72,717	55,682 59,968 67,368 93,026 92,863	128,689 118,399 101,378 93,026 89,334	5,248 5,000 4,963 5,102 5,088	133,897 123,399 106,341 98,128 94,422	89,495 74,582 68,605 98,128 36,618	35,238 30,554 29,387 26,467 24,742	124,733 105,130 97,991 81,117 61,360
PHOENIX of London..... Paterson & Son, Montreal.	1893 1892 1891 1890 1889	202,565 202,564 206,565 206,565 206,564	184,792 179,564 146,234 155,388 149,954	17,773 23,000 60,331 51,177 65,611	260,576 250,285 226,643 228,449 216,422	8,104 8,104 8,104 8,104 8,104	268,680 238,389 234,748 236,553 224,526	165,067 135,335 138,597 110,201 88,548	68,043 62,814 60,732 52,949 60,042	331,110 198,110 199,959 163,150 148,590
QUEEN of Liverpool* H. J. Mudge, Montreal.	1891 1890 1889	287,372 296,276 296,667	251,737 273,818 248,809	35,695 22,460 47,859	219,742 262,485 253,175	11,470 11,955 12,157	231,212 274,441 265,332	117,058 115,506 107,028	58,264 69,435 63,624	175,391 184,941 170,652
ROYAL..... Wm. Talley, Montreal.	1893 1892 1891 1890 1889	1,034,551 1,039,485 904,364 956,805 934,717	893,627 907,501 770,710 756,627 743,823	140,934 111,984 193,654 200,176 190,894	594,631 567,387 536,126 552,723 534,299	26,187 27,557 27,809 26,854 27,075	620,818 594,944 593,935 579,577 561,374	446,332 361,016 366,376 294,511 227,111	154,069 127,586 138,664 139,511 130,017	600,395 599,202 505,001 434,037 357,128
SCOTTISH UNION AND NATIONAL Walter Kavanagh, Montreal.	1893 1892 1891 1890 1889	122,542 494,622 597,529 493,081 489,909	86,201 85,785 87,903 81,098 68,365	37,341 398,906 419,625 411,983 421,544	134,593 137,817 134,247 123,755 114,598	12,140 30,081 30,848 29,396 27,696	146,733 167,898 165,095 153,151 142,204	109,741 94,038 82,866 41,466 45,013	28,848 31,001 33,023 28,077 24,216	138,589 125,099 115,886 69,544 69,229

* Business reinsured on 1st January, 1892, with Queen of America.

† Impairment.

‡ Reinsured fire business of Citizens, February 1, 1892.

BUSINESS AND STANDING OF BRITISH COMPANIES.—Continued.

NAME OF COMPANY AND CHIEF AGENT IN CANADA, TOGETHER WITH LOCATION OF CANADIAN HEAD OFFICE.	Year.	Total Assets in Canada.	Total Liabilities in Canada.	Net Surplus.	Net Cash Premiums Received.	Interest and Other Receipts.	Total Income.	Paid for Losses.	Expenses.	Total Disbursements.
<i>(Figures of Canadian Branch.)</i>										
SUN FIRE.....	1893	\$344,243	\$62,494	\$281,749	\$93,809	\$165	\$93,974	\$58,177	\$37,622	\$95,799
H. M. Blackburn, Chief Agent, Toronto.	1892	395,660	96,155	289,505	37,131	98	37,229	7,717	24,493	32,210
UNION ASSURANCE SOCIETY.....	1893	118,831	95,240	23,591	135,047	3,069	133,116	91,849	38,327	130,176
T. L. Morrisey, Montreal.	1892	112,499	73,435	38,995	104,398	2,957	107,355	47,227	29,918	77,145
	1891	113,105	66,045	66,059	77,941	2,945	80,886	33,275	26,997	60,272
	1890	108,241	10,324	91,916	4,717	None.	4,717	1,125	4,767	5,893
UNITED FIRE INSURANCE CO.....	1893	214,688	145,077	69,611	187,094	6,781	193,875	165,277	53,936	219,213
T. H. Hudson, Chief Agent, Montreal.	1892	243,000	175,816	67,184	173,044	6,790	179,834	153,670	52,075	205,745
	1891	112,383	69,077	43,306	183,862	None.	183,862	79,965	52,123	132,088
	1890	149,100	66,860	82,300	None.	None.	None.	None.	None.	None.

† The premium income of this company does not include amount received for reinsuring outstanding risks of the City of London Assurance Company.

BUSINESS AND STANDING OF AMERICAN COMPANIES.

NAME OF COMPANY AND CHIEF AGENT IN CANADA, TOGETHER WITH LOCATION OF CANADIAN HEAD OFFICE.	Year.	Total Assets in Canada.	Total Liabilities in Canada.	Net Surplus.	Net Cash Premiums Received.	Interest and Other Receipts.	Total Income.	Paid for Losses.	Expenses.	Total Disbursements.
<i>(Figures of Canadian Branch.)</i>										
ÆTNA.....	1893	\$136,614	\$104,060	\$31,654	\$155,949	\$6,180	\$162,129	\$91,254	\$38,851	\$130,105
F. W. Evans, Montreal.	1892	135,935	95,882	40,053	144,250	6,180	150,430	105,379	36,963	142,341
	1891	137,760	79,443	58,317	134,205	5,630	139,835	74,395	34,635	109,030
	1890	141,452	62,616	78,836	126,030	5,630	131,660	84,647	31,609	116,256
	1889	139,400	53,686	85,713	120,497	5,225	125,722	59,038	27,067	86,105
AGRICULTURAL of Watertown.....	1893	172,767	90,923	81,845	51,585	6,478	58,063	43,037	26,390	69,357
C. R. G. Johnson, Montreal.	1892	166,771	99,824	66,947	61,923	7,028	68,951	47,990	28,018	76,008
	1891	174,590	115,056	59,534	77,753	6,613	84,366	67,015	32,680	99,695
	1890	166,175	116,353	49,823	77,541	6,676	84,217	44,980	30,136	75,056
	1889	170,271	116,836	53,435	79,249	7,593	86,752	70,273	30,820	101,093

CONNECTICUT FIRE. C. R. G. Johnson, Chief Agent, Montreal.	1863	109,018	24,440	84,578	32,509	4,000	36,509	20,108	8,498	28,696
	1864	108,556	20,818	87,738	33,054	4,000	37,054	15,900	13,110	20,400
	1861	108,641	28,778	79,863	30,638	4,000	40,638	13,462	9,550	23,012
	1860	107,444	27,262	80,182	36,791	4,000	40,791	13,822	8,551	22,273
	1869	107,753	26,657	81,096	41,952	4,000	45,952	10,117	10,460	20,577
HARTFORD. Peter A. McCallum, Toronto.	1863	127,434	90,140	37,294	138,595	8,306	146,811	97,167	31,021	128,188
	1862	127,821	98,767	29,054	144,483	8,300	152,802	72,716	32,486	105,201
	1861	123,046	93,490	29,550	149,422	8,315	157,737	108,034	34,051	142,085
	1860	119,714	87,070	32,644	128,684	3,455	132,139	109,018	29,840	138,858
	1869	112,552	75,075	37,477	128,236	3,455	131,691	57,552	27,235	84,787
INSURANCE COMPANY OF NORTH AMERICA. Robert Hampson, Chief Agent, Montreal.	1863	138,605	39,618	98,987	66,321	4,440	70,761	43,132	22,239	65,471
	1862	143,410	37,224	106,186	54,885	4,440	59,325	31,075	17,951	49,026
	1861	154,936	30,382	124,555	46,150	4,440	50,590	21,104	16,262	37,366
	1860	133,379	13,517	119,861	26,773	4,440	21,213	11,866	11,234	23,100
	1869	117,048	2,177	114,871	2,004	None.	2,904	None.	1,855	1,855
PHENIX OF Brooklyn. L. C. Camp, Toronto.	1863	138,298	72,356	65,942	89,314	None.	89,314	63,214	26,080	89,294
	1862	132,507	69,267	63,240	88,426	None.	88,426	73,286	25,745	99,031
	1861	129,322	66,476	62,846	84,310	None.	84,310	46,323	23,593	60,916
	1860	130,447	50,004	80,443	72,552	None.	72,552	27,297	21,405	48,702
	1869	135,514	46,533	88,981	70,866	None.	70,866	32,552	19,180	51,738
PHENIX of Hartford. Smith & Tatley, Montreal.	1863	310,050	146,118	163,933	236,139	8,376	244,514	186,356	94,184	280,540
	1862	234,862	169,448	65,414	211,876	6,824	218,700	169,316	83,509	252,825
	1861	185,334	86,708	98,626	129,904	6,569	136,473	73,474	48,541	122,025
	1860	156,100	34,010	122,090	45,946	3,657	49,603	9,340	26,221	35,567
	1869	319,771	196,168	123,603	272,214	817	273,031	171,608	77,971	249,579
QUEEN of America* H. J. Mudge, Chief Agent, Montreal.	1862	318,442	204,610	113,832	271,081	2,918	273,999	191,150	81,481	272,631
	1861	125,794	25,104	100,689	42,800	None.	42,800	7,994	17,682	25,676
	1869									

* Took over the business of the Queen of Liverpool, from January 1, 1862.

INFORMATION CONCERNING LLOYDS AND RECIPROCAL UNDERWRITERS.

In the following table is shown their financial standing and other information, as furnished by their attorneys. This department was closed June 1 :

NAME OF LLOYDS.	Address.	Name of Attorney.	No. of Subscribers.	Amount of Cash Deposited by Each.	Liability of Each in Excess of Deposit.	Limit of Liability of Each on a Co-flagration.	Amount of Available Cash Assets Claimed.	Date of Report. (1894.)	Maximum Line.
American Lloyds.....	45 Cedar St., New York.....	Geo. A. Stanton.....	50	\$ 2,000	(t)	\$ 10,000	\$ 751,687	.....	100,000
Assurance Lloyds of America.....	61 William St., New York.....	R. C. Rathbone & Son.....	57	5,000	10,000	15,000	.....	Feb. 8	25,000
Citizens Fire Lloyds.....	165 Broadway, New York.....	Edw d H. Betts & Co.....	12	1,000	4,000	5,000	.....	.....	5,000
Columbia Fire Lloyds.....	19 Liberty St., New York.....	Porter & Armstrong.....	25	1,000	(t)	5,000	\$ 393,000	May 1	25,000
Commercial Lloyds.....	45 Liberty St., New York.....	Thompson & Bellows.....	20	1,000	4,000	5,000	.....	.....	20,000
Consolidated Underwriters.....	44 Cedar St., New York.....	Chas. S. Atkinson.....	20	1,000	4,000	5,000	.....	.....	5,000
Empire State Fire Lloyds Assn.....	203 Montague St., Brooklyn.....	Welsh & Hegeman.....	11	500	1,000	1,500	.....	.....	5,000
Enterprise Fire Lloyds.....	67 Liberty St., New York.....	Lewis & Daynes.....	20	1,000	4,000	5,000	.....	.....	.....
Equitable Fire Lloyds.....	45 Pine St., New York.....	P. C. Ralli.....	20	1,000	4,000	(f)	.....	.....	5,000
Great Western Lloyds.....	45 Cedar St., New York.....	Geo. A. Stanton.....	..	.....	.....	.....	.....	.....	.....
Guarantee & Accident Lloyds.....	45 Broadway, New York.....	J. G. Dorrance <i>et al.</i>	56	.....	.....	.....	.....	.....	.....
Indemnity Fire Lloyds.....	44 Cedar St., New York.....	Becher & Co.....	20	1,000	4,000	5,000	47,467	June 1	10,000
Indemnity Exchange.....	Kansas City, Mo.....	Wm. Williamson.....	51	500 & 1,000	(t)	(a)	156,000	June 5	215,000
Individual Underwriters.....	54 Franklin St., New York.....	John R. Waters.....	183	500-2,000	(t)	(a)	557,883	May 1	200,000
Insurers Alliance.....	59 William St., New York.....	Dani. Woodcock.....	14	3,000	.....	3,000	75,082	June 1	5,000
Isthmus Lloyds.....	60 Cedar St., New York.....	Lewis & Hull.....	15	1,000	4,000	5,000	.....	.....	7,500
Keystone Fire Lloyds.....	429 Walnut St., Philadelphia.....	Creh & Sullivan.....	20	.....	5,000	.....	.....	.....	10,000
Knickerbocker Lloyds.....	37 Pine St., New York.....	Emery N. Downs.....	20	3,000	None.	3,000	.....	.....	10,000
Lloyds of New York City.....	48 Cedar St., New York.....	D. R. Satterlee & Co.....	15	1,500	3,500	5,000	.....	.....	10,000
Lumbermens Lloyds.....	Eau Claire, Wis.....	J. T. Barber.....	17	5,000	Unlimited	.....	90,000	June 1	25,000
Manhattan Fire Lloyds.....	44 Cedar St., New York.....	J. ap R. Jones.....	20	1,000	2,000	3,000	80,000	June 1	5,000
Manufacturers Lloyds.....	15 Cortlandt St., New York.....	Jameson & Frelinghuysen.....	21	1,000	49,000	5,000	267,076	May 1	21,000
Mercantile Lloyds.....	47 Cedar St., New York.....	Durbrow & Barbour.....	20	1,000	(t)	(f)	92,257	Jan. 1	10,000
Merchants Fire Lloyds.....	57 William St., New York.....	Henry Griffen.....	20	1,000	(t)	10,000	270,000	May	20,000
Merchanis and Mfrs. Fire Lloyds.....	Equitable Bldg., Baltimore, Md.....	J. Ramsay Barry.....	50	(k)	(k)	(k)	*100,000	April 21	10,000

Metropolitan Lloyds.....	44 Cedar St., New York.....	Beecher & Co.....	20	1,400 & {	3,600	5,000 & {	137,215	June 1	20,000
Mutual Lloyds.....	47 Cedar St., New York.....	J. C. Hatle, Attorney; C. S. Braisted, Deputy.....	15	1,000	(t)	{ 10,000 & 5,000	170,160	May 1	20,000
National Lloyds #.....	New York.....	E. T. Masters.....	..	.....	.....	.....	.....	.....	.....
National Fire Association #.....	Cedar and William Sts., N. Y.	Harkness & Lockwood.....	..	.....	.....	.....	.....	.....	.....
National Underwriters.....	44 Cedar St., New York.....	Plyer & Clark.....	20	1,000	4,000	5,000	30,000	June 1	10,000
New York and Boston Lloyds.....	41 Pine St., New York.....	Burke & Brown.....	\$ 25	2,000	8,000	10,000	.....	.....	15,000
New York Central Lloyds.....	45 Cedar St., New York.....	Clark & Fitzgerald.....	30	500	4,500	5,000	263,500	June 4	5,000
New York Fire Lloyds.....	50 Pine St., New York.....	Elijah R. Kennedy.....	10	1,000	(t)	10,000	25,000	May	10,000
N. Y. Marine Underwriters #.....	5 South William St., New York	Chubb & Son.....	100	.....	Unlimited	.....	743,901	Jan. 1	.....
N. Y. Reciprocal Underwriters #.....	54 Franklin St., New York.....	John R. Waters.....	\$ 29	2,000	(t)	20,000	77,688	May 1	56,000
North American Lloyds †.....	115 Fifth Ave., New York.....	Alfred G. Evans, Sec.....	10	None.	(s)	(s)	.....	.....	125,000
Peoples Fire Lloyds.....	168 Broadway, New York.....	Benj. T. Rhoads, Jr.....	10	500	2,000	2,500	40,000	June 1	5,000
Phenix Fire Lloyds #.....	New York.....	M. Thalmeisinger.....	..	.....	.....	.....	.....	.....	.....
Phila. and New York Lloyds #.....	.....	.....	..	.....	.....	.....	.....	.....	.....
Philadelphia Fire Lloyds.....	Philadelphia.....	S. B. Vrooman.....	\$ 16	1,000	Unlimited	(h)	45,531	June 1	10,000
Security Fire Lloyds.....	67 William St., New York.....	J. G. Alden.....	\$ 10	500	1,500	(d)	40,000	May	5,000
South and North Am. Lloyds.....	35 Liberty St., New York.....	Whipple & Co.....	30	500	5,000	5,000	203,334	June 1	20,000
Union Lloyds †.....	44 Cedar St., New York.....	Billups & Wiley.....	20	1,000	4,000	5,000	.....	.....	20,000
United States Lloyds #.....	71 Beaver St., New York.....	Higgins, Cox & Barrett.....	100	.....	.....	.....	915,556	Jan. 1	.....
United Underwriters.....	58 Cedar St., New York.....	J. A. Kehlbach.....	\$ 8	1,250	3,750	5,000	60,000	June 1	2,000

* Deposited with Insurance Commissioner of Maryland. † Unlimited except in case of a conflagration. ‡ Insures subscribers only. § Increasing. ¶ Ten times original deposit. & Premiums. # Includes subscriptions of underwriters. d Subscribers are limited to \$400 on any one policy, and are bound for four times that sum. e Marine. f Five times maximum sum authorized to be written on one policy. g Organized under laws of Maryland. h Ten times maximum sum authorized to be written on one policy. i Members subscribe \$12,500, \$250, \$325 or \$1,500-50, according to class. Liability of each is limited to twice the amount subscribed. j Subscriptions vary from \$2,500 to \$15,000, aggregating \$300,000, of which one-third is paid-up. Liability is limited to amount of subscription. k Organized August 6, 1891; reorganized March 15, 1894. m Losses adjusted but not paid, \$-150; losses known but not adjusted, face of policies, \$27,500. n Not yet in active operation. o Does no fire or marine insurance; business chiefly accident insurance. p Increasing; financial standing of \$200,000 required of each.

LLOYDS AND RECIPROCAL UNDERWRITERS.

The following lists of underwriters of the various Lloyds were furnished about May 1. Since that date there may have been a few changes, but the lists remain substantially as given.

[UNDERWRITERS AT]

AMERICAN LLOYDS, NEW YORK.

GEORGE A. STANTON, Attorney and Manager.

SUBSCRIBERS.

John Gibb of Mills & Gibb, New York.
 William T. Evans of Mills & Gibb, New York.
 *George C. Clarke of Tefft, Weller & Co., New York.
 F. Griswold Tefft of Tefft, Weller & Co., New York.
 August Roesler of Wm. Wicke Co., New York.
 *David S. Walton of D. S. Walton & Co., New York.
 Andrew B. Wallace of Forbes & Wallace, Springfield, Mass.
 George A. Stanton of George A. Stanton & Co., New York.
 Howard Gibb of F. Loeser & Co., Brooklyn, N. Y.
 Clarence O. Howard of Barnes, Hengerer & Co., Buffalo, N. Y.
 William Hengerer of Barnes, Hengerer & Co., Buffalo, N. Y.
 George T. Harris of George S. Harris & Sons, Philadelphia, Pa.
 *Charles J. Follmer of Follmer, Clogg & Co., New York and Philadelphia.
 Walter Callender of Callender, McAuslan & Troup Company, Providence, R. I.
 John E. Troup of Callender, McAuslan & Troup Company, Providence, R. I.
 Dominick O. Cunningham, Pittsburgh, Pa.
 *Leo H. Wise of Wise Bros., New York and Baltimore, Md.
 Edward H. Wise of Wise Bros., New York and Baltimore, Md.
 William E. Lowe, New York.
 Thomas M. Armstrong of Armstrong Bros. & Co., Pittsburgh, Pa.
 Arthur Gibb of Mills & Gibb, New York.
 Vincent P. Travers of Travers Brothers Company, New York.
 James G. Johnson of James G. Johnson & Co., New York.
 John Claffin, president of the H. B. Claffin Company, New York.
 Herbert R. Clarke, formerly of Tefft, Weller & Co., New York.
 Dennis McCarthy of D. McCarthy & Co., Syracuse, N. Y.
 John McAuslan of Callender, McAuslan & Troup Company, Providence, R. I.
 John N. Beach of Tefft, Weller & Co., New York.
 William Wicke of Wm. Wicke Company, New York.
 George West, Ballston, N. Y.
 Moses E. Worthen of Worthen & Aldrich, New York.
 William P. Aldrich of Worthen & Aldrich, New York.
 Henry A. Sherwin, president of Sherwin-Williams Company, Cleveland, O.
 Jacob Amos, Syracuse, N. Y.
 Peter Reid, president of the Reid & Barry Company, Passaic, N. J., and New York.
 Eugene S. Pike, Chicago, Ill.
 Cornelius E. Rumsey, treasurer of the United States Baking Company, Pittsburgh, Pa.
 *Thomas Dimond of G. & T. Dimond, New York.
 Samuel Untermeyer of Guggenheimer & Untermeyer, New York.
 David K. McCarthy of D. McCarthy & Sons, Syracuse, N. Y.

Charles M. Warner, Syracuse, N. Y.
 James Halliday of Lee, Tweedy & Co., New York.
 Henry Buhl, Jr., of Boggs & Buhl, Allegheny City, Pa.
 Edward E. Bruce of E. E. Bruce & Co. (incorporated), Omaha, Neb.
 Lucius N. Littauer of Littauer Bros., New York.
 Albro J. Newton of Kenyon & Newton, Brooklyn, N. Y.
 J. Spencer Turner, New York.
 Alfred B. Scott, Scott & Bowne, New York.
 Lionel Suro, New York.
 Francis C. Travers, president Travers Bros. Co., New York.

*Member of advisory committee.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional:

SECOND.—That in no event or contingency shall the liability of any underwriter exceed the sum underwritten by him hereon; and in no event or contingency shall any underwriter be liable for any part of the sum underwritten hereon by any other underwriter, the liability hereby assumed by each underwriter being several and individual, and not in any respect whatsoever for the amount underwritten by any other underwriter.

THIRD.—That no underwriter hereon shall, by reason of any fire involving several risks insured under policies issued pursuant to the power of attorney granted to the aforesaid George A. Stanton by such underwriter, become liable upon such policies collectively, for more than five times the maximum amount which, under the said power of attorney, the said George A. Stanton shall be authorized to underwrite for such underwriter on any one risk, and any and all policyholders who shall sustain loss or damage from such a fire, shall be entitled to recover from each underwriter only that portion of the adjusted claim of each, which the aggregate of all such adjusted claims shall bear to the total liability of each underwriter as thus limited.

Policy contains clause providing that decision in suit against one underwriter shall be binding upon each of the others.

ASSURANCE LLOYDS OF AMERICA, NEW YORK.

R. C. RATHBONE & SON, General Managers and Attorneys.

SUBSCRIBERS.

Allen W. Adams of Willson, Adams & Co., New York.
 Vernon H. Brown, Cunard Steamship Company, New York.
 Bingham, Douglass & Squire, insurance, Cleveland, O.
 W. Scott Bonnell, president Mahoning National Bank, Youngstown, O.
 Francis P. Burke of Burke & Brown, New York.
 Barnes, Hengerer & Co., dry goods, Buffalo, N. Y.
 J. G. Butler, Jr., and Myron A. Norris, Youngstown, O.
 Wm. Campbell of Wm. Campbell & Co., New York.

A. Carter, Jr., of Carter, Sloan & Co., New York.
 E. C. Converse, vice-president and general manager National Tube Works Company, New York.
 A. B. Chandler, president Postal Telegraph Cable Company, New York.
 Felix Campbell, president People's Trust Company, Brooklyn, N. Y.
 J. B. Colton, capitalist, New York.
 W. P. Cowan, vice president Standard Oil Company of Indiana, Chicago, Ill.
 G. E. Collings of Collings, Taylor & Co., Cleveland, O.
 Westmoreland D. Davis of Gibson & Davis, attorneys at law, New York.
 J. H. Flagler, capitalist, New York.
 W. W. Flannagan, 78 Wall street, New York.
 Chas. R. Flint, treasurer U. S. Rubber Company, New York.
 Arthur B. Graves, New York.
 E. B. Gaddis of Wilkinson, Gaddis & Co., Newark, N. J.
 H. A. Hutchins of Standard Oil Co., New York.
 R. K. Hawley, president Cleveland Saw Mill and Lumber Company, New York.
 Phelps B. Hoyt, Chicago, Ill.
 Hower & Higbee, dry goods, Cleveland, O.
 Hiram C. Haydn, vice-president Western Reserve University, Cleveland, O.
 Thomas B. Kent, president Holmes, Booth & Hayden, New York.
 L. C. Lathrop of Lathrop, Smith & Oliphant, New York.
 Albert R. Ledoux of Ledoux & Co., New York.
 A. M. McGregor of Standard Oil Company, New York.
 Robert H. McCurdy of Mutual Life Insurance Company, New York.
 James W. Nye, insurance, Chicago, Ill.
 J. H. Parker, president U. S. National Bank, New York.
 A. J. Pouch of Standard Oil Company, New York.
 Noah Palmer of Dryden & Palmer, New York.
 Geo. W. Pack of Pack, Woods & Co., Michigan, Asheville, N. C.
 Albert Pack of Albert Pack Lumber Company, Alpena, Mich.
 H. H. Rogers, 26 Broadway, New York.
 Chas. H. Raymond of Mutual Life Insurance Company, New York.
 R. C. Rathbone of R. C. Rathbone & Son., New York.
 Benjamin Rose, president Cleveland Provision Company, Cleveland, O.
 W. D. Rees, president The Republic Iron Company, Cleveland, O.
 R. Blecker Rathbone of R. C. Rathbone & Son, New York.
 Isaac Rosenwald, president Southern National Bank, New York.
 Thomas Rutter, capitalist, New York.
 Robert Sewell, attorney at law, New York.
 Aug. D. Shepard, vice-president American Bank Note Company, New York.
 T. L. Scovill, 32 Park place, New York.
 J. J. Sullivan, cashier and managing director Central National Bank, Cleveland, O.
 Charles B. Thurston, president Jersey City and Bergen Railroad Company, Jersey City, N. J.
 F. Weyerhaeuser, lumber merchant, St. Paul, Minn.
 R. H. Wright, treasurer The Aultman Miller Company, Akron, O.
 Chas. W. Watson, The Cleveland Electric Railway Company, Cleveland, O.
 Myron C. and Geo. D. Wick, iron manufacturers, Youngstown, O.
 W. J. White, proprietor Yucatan Chewing Gum, Cleveland, O.
 A. O. Wilcox & Son, insurance, New York.
 David Young, vice-president and manager Jersey City and Bergen Railroad Company, Jersey City, N. J.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of twenty-five hundred dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed fifteen thousand dollars (the original subscription of \$5000 each being therein included).

Policy contains clause providing that decision in suit against the attorneys shall be binding upon each of the underwriters.

CITIZENS FIRE LLOYDS, NEW YORK.

EDWARD H. BETTS & Co., General Managers and Attorneys.

SUBSCRIBERS.

Allen W. Adams of Wilson, Adams & Co., lumber.
 James S. Barron & Co., wooden and willow ware.
 Charles J. Betts, retired merchant.
 James W. Jackson of A. M. Hoyt & Co., bankers.
 Philip M. Knight, } of John H. Lyon & Co., paper
 John H. Lyon, } and woolen mfrs.' materials.
 L. H. Mace & Co., refrigerators, wooden ware, etc.
 Alexander M. Powell, manufacturing confectioner.
 Peerless Rubber Manufacturing Company.
 Walter W. Watrous of Wilson, Adams & Co., lumber.
 Edward H. Betts, insurance.
 Geo. A. Farnham, American Hotel, Saratoga Springs, N. Y.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional:

The liability of each of the underwriters in case of any loss, and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured hereon a separate policy; their liability being several and not joint. And in the event of a fire or fires occurring, whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than five times the maximum amount which under the said power of attorney the said Edward H. Betts & Co. shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fire or fires shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited; and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended

premiums, shall not exceed five thousand dollars (the original subscription of \$1000 each being therein included).

Policy contains clause providing that decision in suit against the attorneys shall be binding upon each of the underwriters.

COLUMBIA FIRE LLOYDS, NEW YORK. PORTER & ARMSTRONG, Attorneys.

SUBSCRIBERS.

Samuel C. Pullman of John Pullman & Co., New York.
Francis J. Oakes, Oakes Manufacturing Company, 93 Pearl street, New York.
M. E. Worthen of Worthen & Aldrich, New York.
Wm. C. Roberts, president New York Standard Watch Company, New York.
Chapin Hall Lumber Company, Newark, N. J.
Wm. P. Aldrich of Worthen & Aldrich, New York.
George B. Hurd of G. B. Hurd & Co., New York.
Herman Tappan, manufacturer perfumery, etc., New York.
Henry Adams, syrups, etc., New York.
Edward J. Ward, dealer in paper, New York.
R. & H. Simon, silk manufacturers, Union, N. J., and Easton, Pa.
F. B. Hurd of G. B. Hurd & Co., New York.
T. W. Langstroth, real estate and insurance, New York.
J. F. Lutz, manager of New York Standard Watch Company, New York.
W. R. Christmas of Oakes Manufacturing Company, New York.
G. S. Porter, insurance, New York.
Dwight D. Winston of D. D. Winston & Co., Utica, N. Y.
Robert Simon of R. & H. Simon, Union, N. J., and Easton, Pa.
M. M. Smith, real estate, New York.
Leonard B. Smith of Eppens, Smith & Wiemann Company, New York.
R. G. Davison of John Pullman & Co., New York.
John F. Pupke, president Eppens, Smith & Wiemann Company, New York.
John P. Semmer, president Philip Semmer Glass Company, Ltd, New York.
C. B. Holbrook of the Beebe & Holbrook Company, Holyoke, Mass.
Packard, Thomas & Co., 171 Duane street, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such firm, corporation or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—If by reason of a fire several risks insured under policies issued pursuant to the said power of attorneys are involved in such fire, no one of the underwriters hereon shall upon such policies collectively become liable for more than five thousand dollars, and all policyholders who shall sustain loss or damage from such a fire shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

No clause in policy providing that decision in suit against attorneys or one underwriter shall be binding upon the others.

COMMERCIAL LLOYDS, NEW YORK. THOMPSON & BELLows, Attorneys.

SUBSCRIBERS.

William Campbell of Wm. Campbell & Co., New York.
J. B. Ryer of J. B. Ryer, Son & Co., New York.
David S. Brown & Co., soap manufacturers, New York.
Thomas R. McNeil of Smith & McNeil, New York.
S. W. Bowne of Scott & Bowne, New York.
Parker R. Whitcomb, dealer in oils, New York.
Alfred B. Scott of Scott & Bowne, New York.
P. Frybill, manufacturer of machinery, New York.
Charles W. Drake, treasurer Rio Grande and Western R. R. Co., New York.
Cornelius Corson of Daniel Siotte & Co., New York.
Simon Brentano of Brentano's, New York.
Stephen B. Smith of Dauchy & Co., New York.
Henry D. Brewster of Brokaw Bros., New York.
Charles M. Bellows, M.D., Brooklyn.
Samuel T. Dauchy of Dauchy & Co., New York.
F. L. Shoch of New York Elbow Co., New York.
Charles Hubbell of American Biscuit and Mfg. Co., New York.
Cornelius W. Luyster, contractor and builder, New York.
Julius Jackson of Wm. Campbell & Co., New York.
J. W. Thompson of Thompson & Bellows, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such firm or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—If by reason of fires, several risks insured under policies issued pursuant to the said power of attorney, are involved, no one of the underwriters hereon shall upon such policies collectively become liable for more than five times the maximum amount, which under the said power of attorney the said Thompson & Bellows shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fires, shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

No clause in policy providing that decision in suit against the attorneys or one underwriter shall be binding upon the other underwriters.

CONSOLIDATED UNDERWRITERS, NEW YORK.

CHAS. S. ATKINSON, Attorney.

SUBSCRIBERS.

C. C. White, New York city, president White Paper Company.
W. H. Miller, New York city, Miller Brothers.
Phillip V. R. Van Wyck, New York city, builders materials.
Lindley Murray, New York city, capitalist.
J. B. Conklin, New York city, president Continental Conduit Company.
Geo. W. Holt, New York city, insurance.
O. L. Geer, New York city, investment securities.
E. Miller, New York city, Miller Brothers.
A. P. Downer, New York city, grain.

Henry C. Dart, New York city, commission merchant.
 Wenneis Brothers, New York city, furniture manufacturers.
 R. M. Dudley, Jr., New York city, contractor.
 A. W. Lewis, New York city, manager Associated Press.
 George Perault, New York city, president Monroe County Springs Company.
 J. Pierson Grant, New York city, manager Continental Conduit Company.
 Isaac M. Holcomb, New York city, manufacturer of building material.
 Merwin & Atkinson, New York city, insurance.
 Wm. W. Simpson, New York city, president Brooklyn Iron and Block Company.
 Harry Kyte, New York city, Dominion Phosphate and Mining Company.
 Frank H. Adams, New York city, The Adams Press.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional :

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And in the event of a fire or fires occurring, whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than five times the maximum amount which under the said power of attorney the said Merwin and Atkinson shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fire or fires shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited; and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed five thousand dollars (the original subscription of \$1000 each being therein included).

Policy contains clause providing that decision in suit against the attorneys shall bind each of the underwriters.

EMPIRE STATE FIRE LLOYDS ASSOCIATION, BROOKLYN.

WELSH & HEGEMAN, Attorneys and Managers.

SUBSCRIBERS.

Joseph Hegeman, real estate and loans, Real Estate Exchange, Brooklyn.
 Samuel Welsh, insurance, Brooklyn, N. Y.
 Patrick G. Hughes, Brooklyn, N. Y.
 John Licht, agent for Thomas Patten estate, East Williamsburgh, L. I.
 Adam G. Snyder, with Howard & Fuller Brewing Company, Flatbush, L. I.
 Henry Hart, cigar manufacturer, 3 Hamilton avenue, Brooklyn, N. Y.
 Lee Goldsmith, gent's furnishings, 322 Court street, Brooklyn, N. Y.
 John F. Lieht, real estate manager, East Williamsburgh, L. I.

Herman Muller, liquors, Sands and Bridge streets, Brooklyn, N. Y.
 Mark Hart, M. Hart & Co., insurance, Arbuckle Building, Brooklyn, N. Y.
 Fred Bessler, Rockaway, L. I.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional :

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of \$500. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, their liability being several and not joint. And in the event of a fire or fires occurring whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than three times the maximum amount which under the said power of attorneys the said Welch & Hegeman shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fire or fires, shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter as thus limited, and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums shall not exceed \$1500 (the original subscription of \$500 each being therein included).

Policy contains clause providing that decision in suit against the attorneys shall be binding upon each of the underwriters.

EQUITABLE FIRE LLOYDS, NEW YORK.

P. C. RALLI, Attorney and Manager.

SUBSCRIBERS.

*Ignatz Boskowitz, president Mechanics and Traders Bank, New York.
 *Isaac Stibel of the Japanese Fan Company, New York.
 *Henry Newman of H. Newman & Co., New York.
 C. K. Buckley, president Yellow Pine Company, New York.
 *Chas. L. Buckley, vice-president Yellow Pine Company, New York.
 K. Mandell of K. Mandell & Co., New York.
 Samuel Rauh, New York.
 Philip Weinberg & Co., New York.
 Nathan Bros., New York.
 Bloomingdale Bros., New York.
 J. H. Loewenstine, New York.
 Moses Nathan of Nathan Bros., New York.
 H. Richter's Sons (*Bruno Richter), New York.
 Myer Foster, late of Foster, Hilson & Co., New York.
 Stern & Co., New York.
 Myer Foster, New York.
 Henry Rice, New York.
 Steefel Bros. of Albany, N. Y.
 Charles Wehle, New York.
 Ralli & Samuels, New York.
 *Member of advisory committee.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional :
 FIRST.—In no event or contingency shall the

liability of any underwriter hereon exceed the amount of the subscription hereto by such firm or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, and not in any respects for the amount insured by any other underwriter.

SECOND.—If by reason of fires several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon such policies collectively become liable for more than five times the maximum amount, which under the said power of attorney the said P. C. Ralli shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fires, shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

No clause in policy providing that decision in suit against attorney or one underwriter shall be binding upon the other underwriters.

GUARANTEE AND ACCIDENT LLOYDS.
JOHN G. DORRANCE, WM. D. CHASE & WM. H. CHESEBROUGH, JR., Attorneys.

SUBSCRIBERS.

C. F. Ackerman of Meissner, Ackerman & Co.
Wm. P. Aldrich.
William Allan, vice-president The A. H. Hart Company.
J. Bertschmann, treasurer Reliance Marine Insurance Company.
Sydney Bishop of Maurice & Bishop.
Frank S. Bond, vice-president Chicago, Milwaukee and St. Paul Railway Company.
Henry P. Booth of James E. Ward & Co.
C. H. Bosher of R. T. Wilson & Co.
Wm. Bouldin, Jr., president Benz Motor Company.
James Brand.
William D. Chase.
Robert A. Chesebrough, president Chesebrough Manufacturing Company.
William H. Chesebrough of Chesebrough Manufacturing Company.
C. C. Clarke, vice-president New York Central and Hudson River Railroad Company.
Louis D. Collins.
John F. Dryden, president Prudential Insurance Company of America.
John D. Desmond of J. J. O'Brien & Co.
John S. Ellis of Nassau Ferry Company.
Charles S. Fairchild, president New York Security and Trust Company.
W. D. Faris, secretary and treasurer Baker Castor Oil Company.
Charles R. Flint of Flint & Co.
Eugene Fuller.
John Harlin, president McNab & Harlin Manufacturing Company.
Richard Irvin of Richard Irvin & Co.
E. L. Keyes.
David H. King, Jr.
Wm. Kraus of Naumburg, Kraus, Lauer & Co.
Henry R. Kunhardt of Kunhardt & Co.
Daniel S. Lamont.
R. A. Learned, Manager Wilber's Mercantile Agency.
G. Weaver Loper, president Victoria Cordage Company.
Charles Mall of Henry T. Mall & Co.
Charles M. Marvin, manager United States Life Insurance Company.
Robert S. Masterton, secretary Empire Dairy Feed Company.

Lawrence S. Mott of Lawrence S. Mott & Co.
Walter G. Oakman, president Richmond and West Point Terminal Railway Company.
J. R. Planten of H. Planten & Son.
Robert R. Rathbone of R. C. Rathbone & Son.
Robert L. Reade.
Thomas Reid, vice-president Eppens, Smith & Wiemann Company.
G. Reusens.
Charles H. Ropes.
J. Edward Simmons, president Fourth National Bank.
Thomas Smith, vice-president W. & T. Smith Company.
John F. Talmage of Dan Talmage's Sons.
Charles D. Towt.
Francis C. Travers, president Travers Brothers Company.
V. P. Travers, treasurer Travers Brothers Company.
John A. Tweedy of Lee, Tweedy & Co.
Edward Uhl, vice-president Staats-Zeitung.
James M. Varnum of Varnum & Harrison.
James E. Ward of James E. Ward & Co.
R. T. Wilson & Co.
Richard T. Wilson of Manhattan Trust Company.
M. E. Worthen, president Worthen & Aldrich Company.
W. Gill Wylie.

INDEMNITY EXCHANGE, KANSAS CITY, MO.

WM. WILLIAMSON, Attorney and Manager; R. M. WILLIAMSON, Deputy Attorney.
Does inter-insurance only.

ADVISORY COMMITTEE.

K. B. Armour, Armour Packing Company.
James Grassie, Carson, Pirie, Scott & Co.
Wm. J. Reid, Reid Bros. Packing Company.
Geo. A. Fowler, Geo. Fowler, Son & Co., Ltd.
K. B. Armour, trustee for subscribers.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional:

It is understood and agreed that no subscriber shall be or become liable by reason of a fire involving several risks insured under policies issued pursuant to said agreement for more than five times the maximum amount which the attorney aforesaid shall be authorized to write on any one risk for such subscriber, and that, if in consequence of such a fire the aggregate of the adjusted claims against any subscriber shall exceed five times such maximum amount, each of said adjusted claims shall suffer a *pro rata* reduction sufficient to reduce such aggregate to a sum equal to said five times such maximum amount.

In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such firm or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter. Each subscriber hereto has entered into an agreement with each of the other subscribers hereto to insure each other upon terms and conditions as expressed in said agreement, which said agreement is made a part of this contract.

No clause in policy providing that decision in suit against the attorney or against one subscriber shall be binding upon the others.

INDEMNITY FIRE LLOYDS, NEW YORK.

BEECHER & Co., Attorneys.

SUBSCRIBERS.

Wm. J. Broadwell, banker and broker, New York.
 * Wm. C. Beecher, counsellor at law, New York.
 Chas. A. Fierz, treasurer Hammerschlog Manufacturing Company, New York.
 Siegfried Hammerschlog, president Hammerschlog Manufacturing Company, New York.
 W. A. Harper, Harper & Bros., New York.
 Geo. R. Hillier, R. Hillier's Son Co., New York.
 * W. E. Lowe, insurance, New York.
 * John McAnerney, president Seventh National Bank, New York.
 Chas. H. Nicoll, Nicoll & Roy Co., New York.
 Francis A. Palmer, president National Broadway Bank, New York.
 Lowell M. Palmer, cooperage, New York.
 Dan Talmage's Sons, rice, New York.
 * S. V. White, banker and broker, New York.
 * Member of advisory board.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount issued by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended and undivided premiums, shall not exceed five thousand dollars (the original subscription of \$1000 each being therein included).

Policy contains clause providing that decision in a suit against the attorneys shall be binding upon each underwriter.

INDIVIDUAL UNDERWRITERS, NEW YORK.

JOHN R. WATERS, Attorney and Manager.
 Does inter-insurance only.

ADVISORY COMMITTEE.

William T. Evans of Mills & Gibb.
 Brace Hayden of Dunham, Carrigan & Hayden Co.
 George C. Clarke of Tefft, Weller & Co.
 Horace J. Fairchild of the H. B. Claffin Company.
 Frank R. Chambers of Rogers, Peet & Co.

LIMITATION OF LIABILITY.

The exact New York Standard form of policy is used, with the following clause additional:

Each person, or firm, or corporation acting exclusively for such person, or firm, or corporation, and not for any other or others, and each represented under separate power of attorney by John R. Waters of the city, county and State of New York, and it being understood that wherever in this policy the word "company" occurs it means, and shall be taken and construed as meaning, the persons, firms or corporations whose names are subscribed to said policy by their said attorney, and as a part of the contract contained in this policy that each of the subscribers hereto has entered into an agreement with each of the other subscribers to insure property against loss or damage by fire to the several

amounts respectively authorized by said agreement upon the terms and conditions in said agreement expressed, which said agreement is hereby made a part of this contract, it being thereby provided that no subscriber shall, in any event, be made jointly liable with the others, or with any one or any of the others, or otherwise than severally, and that no subscriber shall be or become liable by reason of a fire involving several risks insured under policies issued pursuant to said agreement for more than ten times the maximum amount which the attorney shall be authorized to write on any one risk for such subscriber, and that, if in consequence of such a fire the aggregate of the adjusted claims against any subscriber shall exceed ten times such maximum amount, each of said adjusted claims shall suffer a *pro rata* reduction sufficient to reduce such aggregate to a sum equal to said ten times such maximum amount.

No clause in policy providing that decision in suit against the attorney or one underwriter shall be binding upon the other underwriters.

INSURERS' ALLIANCE, NEW YORK.

DANIEL WOODCOCK, Attorney.

SUBSCRIBERS.

Eugene D. Croker of E. D. Croker & Son, New York.
 Granville F. Dailey of Searle, Dailey & Co., New York.
 Albert E. Duryea, with Garner & Co., New York.
 Joseph Faulkner, manager Burr Printing House, New York.
 Edward H. Faulkner, insurance, New York.
 Jocelyn H. Holmes, wholesale notions and millinery, New York.
 Clarence H. Scrymser, president Wardwell Sewing Machine Company, Woonsocket, R. I., New York.
 P. E. Tallman, with the H. B. Claffin Company, New York.
 Daniel Woodcock, New York.
 Andrew J. Willets, Brooklyn, N. Y.
 Wm. W. Farmer, of A. D. Farmer & Son Type Founding Company, New York.
 Wm. H. Gibson, lawyer, New York.
 E. R. Pelton, publisher, New York.
 Henry Thrush, vice-president Empire Typesetting Machine Company, New York.
 Arnold B. Heine, of Arnold B. Heine & Co., N. Y.

LIMITATION OF LIABILITY.

The New York Standard form of policy is issued with the following special clause additional:

The liability of each of the underwriters in case of loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several not joint. And in the event of a fire or fires occurring, whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than three times the maximum amount which under the said power of attorney the said Daniel Woodcock shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage for such fire or fires shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy

which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited; and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed three thousand dollars (the original subscription of \$3000 each being therein included).

Policy contains a clause providing that decision in a suit against the attorney shall be binding upon each underwriter.

ISTHMUS LLOYDS, NEW YORK.

LEWIS & HULL, Attorneys.

SUBSCRIBERS.

Thos. J. Atkins of Sargent & Co., New York.
Chas. F. Brooks, director Sprague National Bank, Brooklyn.
Hon. John H. Graham of John H. Graham & Co., New York.
Hon. John Cashow, Oyster Bay, L. I.
P. S. Swain, iron merchant, New York.
E. A. Lovell, real estate, New York.
Samuel Darbee, vice-president Farragut Insurance Company, New York.
Jos. Stiner of Jos. Stiner & Co., New York.
J. C. Hopper, sub-treasury, New York.
H. A. Lovell, real estate, New York.
W. S. Badger of W. S. Badger & Co., New York.
John S. Oliver, insurance, Brooklyn.
N. D. Morgan, president Globe Printing and Stationery Company, New York.
Geo. D. Greenwood, commission merchant, New York.
Alonso Lewis of Lewis & Hull, New York.
T. Hogan, T. Hogan & Sons, ship owners, N. Y.
Martin V. Wood, pres. Bank of Hempstead, Hempstead, L. I.
Chas. W. Hogan, T. Hogan & Sons, ship owners, N. Y.
James L. Taylor, proprietor of "Dobbs Ferry Register," Dobbs Ferry, N. Y.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And in the event of a fire or fires occurring whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than five times the maximum amount which under the said power of attorney the said Lewis & Hull shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fire or fires shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited; and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed five

thousand dollars (the original subscription of \$1000 each being therein included).

Policy contains clause providing that decision in suit against the attorneys shall be binding upon each underwriter.

KNICKERBOCKER LLOYDS, NEW YORK.

EMERY N. DOWNS, Attorney and Manager.

SUBSCRIBERS.

William Barbour, president Barbour Brothers Company, Paterson.
Jacob J. Detwiler, president Detwiler Street Company, fireworks, New York.
Emery N. Downs, manager and attorney.
Thomas Ferguson, treasurer Phillips, Ferguson & Hanold Company.
W. H. Hoschke of W. J. Paillard & Co.
Charles T. Jones, importer.
A. R. Hart, president New York Engraving and Printing Company.
Charles T. Phillips, banker, New York.
David Resseque, lumber, Brooklyn.
John B. Phillips, president Phillips, Ferguson & Hanold Company.
John G. Schumaker, lawyer, Brooklyn.
Charles G. Street, vice-president and treasurer Detwiler Street Company.
Arthur C. Salmon, lawyer, Brooklyn.
W. A. Turner, secretary Detwiler Street Co.
Thomas Hunter of Hunter, Glenn & Hunter, Detroit and Utica.
J. Wilson Smyth, insurance, Newark.
R. F. Downing, banker and forwarder, New York.
Col. A. F. Soper, president Safety Car Heating and Lighting Company (Pintsch system).
Joseph H. Moore, president Monitor Iron Works.
F. T. Brame, comptroller Mutual Reserve Fund Life.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clause additional:

If by reason of a fire several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall, upon such policies collectively, become liable for more than six times the maximum amount which the said Emery N. Downs shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such a fire shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

Policy contains clause providing that decision in suit against the attorney shall be binding upon each of the underwriters.

LLOYDS OF NEW YORK CITY.

D. R. SATTERLEE & Co., Attorneys and Managers.

SUBSCRIBERS.

Andrew J. Bates of A. J. Bates & Co., New York.
Milo M. Belding, Jr., of Belding Bros. & Co., N. Y.
William C. Dreyer, president American Consolidated Fibre Company, New York.
C. D. Fisher of A. H. Rathbone & Co., N. Y.
Louis C. Fuller, president Electric Cutlery Company, president Sherman Bank of New York, Newark, N. J.
George P. Johnson, treasurer New York Biscuit Company; New York manager Diamond Match Company, New York.
Andrew B. Knowlson, knit goods manufacturer, Sand Lake, N. Y.

Alexander M. Knowlson, druggist, New York.
 William Loft, manufacturing confectioner, N. Y.
 N. Denison Morgan, president Globe Stationery and Printing Company, New York.
 Aaron H. Rathbone of A. H. Rathbone & Co., New York.
 Douglass R. Satterlee of D. R. Satterlee & Co., New York.
 Frederic W. Satterlee of A. H. Rathbone & Co., New York.
 D. R. Satterlee & Co., attorneys and managers, New York.
 Worthington Smith & Co., silk and millinery goods, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed five thousand dollars (the original subscription of \$1500 each being therein included).

Policy contains a clause providing that decision in a suit against the attorneys shall be binding upon each underwriter.

LUMBERMENS LLOYDS, EAU CLAIRE, WIS.

J. T. BARBER, President.
 Does inter-insurance only.

SUBSCRIBERS.

Chippewa Lumber and Boom Co., Chippewa Falls, Wis.
 Chippewa Logging Co., Chippewa Falls, Wis.
 Laird Norton Co., Winona, Minn.
 C. Lamb & Sons, Clinton, Ia.
 Montreal River Lumber Co., Gile, Wis.
 North Western Lumber Co., Eau Claire, Wis.
 North Wisconsin Lumber Co., Hayward, Wis.
 Pine Tree Lumber Co., Little Falls, Minn.
 Rust-Orven Lumber Co., Eau Claire, Wis.
 C. A. Smith Lumber Co., Minneapolis, Minn.
 Winona Lumber Co., Winona, Minn.
 Sawyer & Austin Lumber Co., La Crosse, Wis.
 Rock Island Lumber and Manufacturing Co., Rock Island, Ill.
 C. N. Nelson Lumber Co., Cloquet, Minn.
 Cloquet Lumber Co., Cloquet, Minn.
 Shell Lake Lumber Co., Shell Lake, Wis.
 White River Lumber Co., Mason, Wis.

MANHATTAN FIRE LLOYDS, NEW YORK.

L. AP R. JONES, Attorney.

SUBSCRIBERS.

Samuel Adams, Adams & Co., New York.
 Walter S. Badger, Walter S. Badger & Co., New York.
 Ferral C. Diniany, Jr., iron and coal, New York.
 J. Ferro, commission merchant, New York.
 W. J. Hammond, Jr., coal and coke, New York.
 John H. Herbert, John H. Herbert & Co., New York.
 John F. Hashagen, Lester & Hashagen, New York.
 L. ap R. Jones, insurance, New York.

Andrew Jacobs, Assabett Manufacturing Company, New York.
 W. McCarty Little, president Union Transfer and Storage Company, New York.
 George M. B. Mudge, Mudge & Wheeler, New York.
 Eugene D. Miller, secretary Aspinwall Fruit Company, New York.
 Frank W. McNeal, contractor, New York.
 Donald McNeill, manufacturer, South Brooklyn.
 Frederick A. Nichols, the Hadley Company, New York.
 Wm. H. Paulding, president Pottier & Stymus Manufacturing Company, New York.
 Wm. J. de Rivera, insurance, New York.
 Henry H. Stanwood, H. H. Stanwood & Co., Brooklyn.
 G. H. K. White, New York.
 Thompson, Moore & Co., tobacco, New York.
 Edwin W. Orris, Orris Bros, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And in the event of a fire or fires occurring, whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than three times the maximum amount which under the said power of attorney the said Llewellyn ap R. Jones shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fire or fires shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited; and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed three thousand dollars (the original subscription of \$1000 each being therein included).

Policy contains clause providing that decision in suit against the attorney shall be binding upon each underwriter.

MANUFACTURERS LLOYDS, NEW YORK.

JAMESON & FRELINGHUYSEN, Attorneys and Managers.

SUBSCRIBERS.

Frank Hiscock, Syracuse, N. Y.
 *Chas. W. Snow of C. W. Snow, wholesale druggists, Syracuse, N. Y.
 *Gates Thalheimer, wholesale grocer, Syracuse, N. Y.
 *Clarence G. Brown of Novelty Manufacturing Company, Syracuse, N. Y.
 Wm. B. Cogswell of Solvay Process Company, Syracuse, N. Y.
 Hendrick S. Holden of Holden & Sons, Syracuse, N. Y.
 Henry O'Neill, Syracuse, N. Y.
 Albert E. Nettleton of A. E. Nettleton & Co., shoe manufacturers, Syracuse, N. Y.

Wilbur S. Peck of W. S. Peck & Co., wholesale clothing, Syracuse, N. Y.
 John P. Heir, wholesale tobacco, Syracuse, N. Y.
 Arthur Jenkins, president Herald Association, Syracuse, N. Y.
 Chas. E. Crouse, C. E. Crouse & Co., wholesale groceries, Syracuse, N. Y.
 John L. King, Syracuse, N. Y.
 Thomas Hogan, Syracuse, N. Y.
 *William Cowie, Syracuse, N. Y.
 *John Moore of John Moore & Co., contractors, Syracuse, N. Y.
 Maurice A. Graves, Syracuse, N. Y.
 Rufus T. Peck, Cortland, N. Y.
 Hahne & Co., Newark, N. J.
 Wm. Hills of Hills, Brothers, New York city.
 Jameson & Frelinghuysen, New York city.
 * Member of advisory committee.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by any such firm or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—If by reason of a fire several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon such policies collectively become liable for more than five times the maximum amount, which under the said power of attorney the said Jameson & Frelinghuysen shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such a fire shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

FOURTH.—In no event or contingency shall any one of the underwriters upon all policies issued by them collectively become liable for more than \$50,000, and all policyholders who shall sustain loss or damage shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

Policy contains a clause providing that decision in a suit against one underwriter shall be binding upon each of the others.

MERCANTILE LLOYDS, NEW YORK.

DURBROW & BARBOUR, Attorneys.

SUBSCRIBERS.

George F. Morgan, N.Y. L. W. Bingham, est. of, James Cousins, Jr., N.Y. Cleveland, O.
 Thomas Cousins, N.Y. J. W. Pratt, New York.
 John Hills, New York. Jas. W. Durbrow, N. Y.
 H. C. Hallenbeck, N.Y. Henry Heide, New York.
 P. K. Wilson & Son, N.Y. Ruland & Whiting, N. Y.
 Samuel Martin, N. Y. Wm. Hengerer, Buffalo.
 Wm. H. Baker, N. Y. C. O. Howard, Buffalo.
 Elliott L. Butler, N. Y. F. C. M. Lautz, Buffalo.
 C. L. Childs, New York. Wm. F. Dornbusch, N.Y.
 John Brown, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—In the case of a fire involving several risks insured under policies issued pursuant to the said power of attorney, no one of the underwriters hereon shall, upon all such policies collectively, become liable for more than five times the maximum amount which under the said power of attorney the said Durbrow & Barbour shall be authorized to subscribe for said underwriter on any one policy, and all policyholders who shall sustain loss or damage from such fire, shall be entitled to recover as against each underwriter only that portion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

Policy contains clause providing that decision in suit against one underwriter shall be binding upon each of the others.

MERCHANTS AND MANUFACTURERS FIRE LLOYDS, BALTIMORE, MD.

J. RAMSAY BARRY, Attorney.

SUBSCRIBERS.

* J. Frank Supplee, pres Chesapeake Shirt Co.
 * Rufus Woods, importer of sugar, coffee, etc.
 * John E. Hurst, Hurst, Purnell & Co., wholesale dry goods and notions.
 G. W. Gail, G. W. Gail & Ax, branch of American Tobacco Company.
 * Jas. McEvoy, manager Graham estate, Graham's warehouses.
 * Jas. A. Gary, James S. Gary & Son, manufacturers cotton duck, etc.
 Wm. H. Baldwin, Jr., Woodward, Baldwin & Co., manufacturers and dry goods commission agents.
 * Bernard Cahn, Cahn, Beit & Co. (wholesale liquors).
 Alexander Brown, Alexander Brown & Sons, bankers.
 * John A. Hambleton, capitalist.
 C. A. Gambrill Manufacturing Company, Patapsco Flouring Mills.
 Wm. A. Marburg, Marburg Brothers, branch American Tobacco Company.
 Wm. T. Levering, importer of coffee.
 E. Levering & Co., importers of coffee.
 Hoffman, Lee & Co. (* C. O. D. Lee), importers and jobbers of coffee.
 * Wm. T. Dixon, president National Exchange Bank; The Dixon, Bartlett Company, manufacturers and wholesale boots and shoes.
 * J. H. Judik, president Peoples Bank; R. M. Jones & Co., pork packers.
 R. M. Jones, R. M. Jones & Co., pork packers.
 A. C. Pracht, Chas. Pracht & Co., candy manufacturers.
 Charles J. Taylor, Chas. J. Taylor & Co., paper box manufacturers.
 Chas. E. Houghton, president The Houghton Packing Company.
 Ambach, Burgunder & Co., wholesale manufacturers clothing.
 Solomon Frank, Frank & Adler, wholesale boots and shoes.
 Charles Adler, Frank & Adler, wholesale boots and shoes.
 * Aubrey Pearre, Pearre Brothers & Co., wholesale dry goods and notions.

T. Edward Hambleton, Hambleton & Co., bankers.
R. W. Cator, Armstrong, Cator & Co., wholesale milliners.

S. R. Tregellas, Tregellas, Hertel & Co., wholesale dry goods and notions.

Daniel Miller, Daniel Miller & Co., wholesale dry goods and notions.

P. New & Sons, wholesale grocers.

John Stinson, proprietor Baltimore Hub Factory.

Andrew Reiter & Co., wholesale grocers.

Taylor & Levering, importers of coffee.

J. W. Crook, wholesale grocer.

Wm. J. Saeeringer, Saeeringer & Co., wholesale tobacco.

*Wm. M. Powell, Wm. M. Powell & Co., wholesale grocers.

Skipwith Wilmer, Barton & Wilmer, attorneys-at-law.

The Gottschalk Company, wholesale liquors.

Jesse B. Riggs, insurance.

H. Irvine Keyser, Keyser Brothers & Co., Baltimore Copper and Smelting and Rolling Co.

Henry S. Fink, Fink Brothers & Co., wholesale tobacco.

Geo. K. McGaw, Hopper, McGaw & Co., wholesale grocers.

W. K. Carson & Co., wholesale grocers.

E. A. Jackson, E. A. Jackson & Co., coffee brokers.

Leonard M. Levering, Benedict & Co., importers of coffee.

J. S. Macdonald, jewelry.

J. Ramsay Barry, insurance.

Harry D. Williar, Geo. P. Williar & Son, flour and grain.

Wm. Ferguson, Wm. Ferguson & Bros, bldrs.
Edgar K. Legg, general manager Baltimore Building and Loan Association.

* Member of advisory board.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clause additional:

The liability of each of the underwriters hereon in case of any loss, and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and in no event or contingency shall the liability of any underwriter hereon exceed the amount hereto subscribed by him, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. Nor shall any underwriter hereon be or become liable by reason of a fire or fires damaging or destroying property covered by several policies on which the name of said underwriter is written, for more than the amount subscribed by him to the said Merchants and Manufacturers Fire Lloyds of Baltimore city in the articles of agreement between him and his cosubscribers, bearing the certificate of the Attorney General of Maryland, dated April 10, 1894; and if at any time while this policy is in force the aggregate amount of the claims arising from a fire or fires, for which any one of the underwriters hereon shall become liable on policies to which the name of such underwriter is affixed, shall exceed the amount of such underwriter's above mentioned subscription, then the claim of the insured on such policies against such underwriter shall suffer a proportionate reduction, sufficient to reduce the total amount of such underwriter's liability on all such policies collectively, to the amount of such subscription; and the payment by any one of said underwriters of the amount of his said subscription, either to the Advisory Board of said Merchants and Manufacturers Fire Lloyds of Baltimore city at the time of his subscription, as

provided in the Second Article of its articles of agreement, or thereafter by virtue of such underwriter's obligation on policies to which his name is signed, shall be a full discharge of the obligation entered into by said underwriter on any and all policies bearing his name, whether now or hereafter issued.

Policy contains clause providing that decision in suit against the attorney shall be binding upon each of the underwriters.

MERCHANTS FIRE LLOYDS, NEW YORK.

HENRY GRIFFEN, Attorney.

SUBSCRIBERS.

Meyer Jonasson & Co.	Nathan Bros.
Benjamin & Caspary.	*Blumenthal Bros. & Co.
*A. Friedlander.	Oscar Goerke.
*B. Blumenthal & Co.	Worthington Smith & Co
*Meyer Jonasson.	P. K. Wilson.
M. Nathan, Nathan Bros.	Henry Griffen & Co.
Oppenheim, Collins & Thalheimer Bros.	Co.
J. Henry Rothschild.	Steeffel Brothers.
Henry Griffen.	Joseph Loth & Co.
*H. A. Loth, J. Loth & Co.	N. Erlanger, Blumgart

* Member of advisory committee.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such firm or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter has issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—If by reason of a fire several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon such policies collectively become liable for more than ten times the maximum amount which under the said power of attorney the said Henry Griffen shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such a fire shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

No clause in policy providing that decision in suit against attorney or one underwriter shall be binding upon the other underwriters.

METROPOLITAN LLOYDS, NEW YORK.

BEECHER & Co., Attorneys.

SUBSCRIBERS.

William J. Broadwell, banker and broker, N. Y.
Theo. C. E. Blanchard, superintendent Real Estate Prudential Insurance Company of America, Newark, N. J.
* William C. Beecher, Attorney and counsellor at law, New York.
Wells A. Bingham of Wells A. Bingham & Co., New York.
* E. B. Gaddis of Wilkinson, Gaddis & Co., Newark, N. J.
W. A. Harper, Harper & Bros., New York.

Geo. P. Johnson, treas. New York Biscuit Co. and N. Y. mgr. Diamond Match Co., New York.
 *William H. Keilner of Hahne & Co., Newark, N. J.
 William E. Lowe, insurance, New York.
 Chas. Lee Meyers of H. N. Meyers' Sons, New York.

Warren E. Smith, merchant, New York.

* Alexander B. Simonds of Whitlock & Simonds, New York.

* S. V. White, banker and broker, New York.
 Worthington, Smith & Co., merchants, New York.
 Arthur White, member New York Stock Exchange, New York.

Bache McE. Whitlock of Whitlock & Simonds, New York.

N. Denison Morgan, pres. Globe Stationery and Printing Co., N. Y.

Geo. W. Kenyon, president Martin Kalbfleisch Sons Company.

Henry A. Simonds, F. W. Simonds & Son.
 S. J. Montgomery, with John Danelli & Son.

* Member of advisory board.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed five thousand dollars (the original subscription of \$1400 each being therein included).

Policy contains clause providing that decision in suit against the attorneys shall be binding upon each underwriter.

THE MUTUAL LLOYDS, NEW YORK.

C. S. BRAISTED, Attorney.

SUBSCRIBERS.

O. R. Meyer, New York. F. Bianchi, New York.
 Wm. Hengerer, Buffalo. C. S. Braisted, N. Y.
 Elliott L. Butler, N. Y. O. E. Von Au, Bklyn, N. Y.
 C. O. Howard, Buffalo. A. Rasines, New York.
 A. Shuman, Boston. Henry Offerman, N. Y.
 Hy. Morganthau, N. Y. Wm. Dick, New York.
 J. C. Hatie, New York. J. G. Butler, Jr., Youngstown, O.
 Merck & Co., N. Y.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—In the case of a fire involving several risks insured under policies issued pursuant to the said power of attorney, no one of the underwriters hereon shall upon all such policies collectively be-

come liable for more than five times the maximum amount which under the said power of attorney the said Joseph C. Hatie shall be authorized to subscribe for said underwriter on any one policy, and all policyholders who shall sustain loss or damage from such fire, shall be entitled to recover as against each underwriter only that portion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

Policy contains clause providing that decision in suit against one underwriter shall be binding upon the others.

NATIONAL UNDERWRITERS, NEW YORK.

PLYER & CLARK, Attorneys.

SUBSCRIBERS.

E. W. Bliss, president E. W. Bliss Company, presses and dies, Brooklyn, N. Y.
 *V. P. Travers, treas. Travers Bros. Co., twines, N. Y.
 E. P. Gleason, president E. P. Gleason Manufacturing Company, gas fixtures, New York.
 *W. T. Hayward, president Jay C. Wemble Company, window shades, New York.
 *Joseph Bardsley, Bardsley Bros., builders' hardware, New York.
 Edward Annan, grain and lighterage, New York.
 *W. F. Smith, president Hale Co., furniture, N. Y.
 G. C. Boorum, secretary Boorum & Pease Company, blank book manufacturers, New York.
 J. Fellows Tapley, bookbinder, New York.
 *Charles E. Fleming, Bonneau & Fleming, hard wood and veneers, New York.
 W. W. Kenyon, Kenyon & Newton, sashes and blinds, Brooklyn, N. Y.
 Joseph J. Bonneau, Bonneau & Fleming, hard wood and veneers, New York.
 Dey Bros & Co., dry goods, Syracuse, N. Y.
 C. W. Plyer, insurance manager, National Wall Paper Company, New York.
 Jas. G. Johnson, Jas. G. Johnson & Co., millinery, New York.
 Robt. vom Cleff, vom Cleff & Co., hardware, N. Y.
 Henry Littlejohn, secretary Scoville & Adams Manufacturing Company, New York.

*Member of advisory board.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following special clauses additional:

FIRST CLAUSE.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by each firm or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND CLAUSE.—If by reason of fires, several risks insured by policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon such policies collectively become liable for more than five times the maximum amount, which under the said power of attorney the said Plyer & Clark shall be authorized to subscribe for each of said underwriters under one policy, and all policyholders who shall sustain loss or damage from such fires, shall be entitled to recover as against each underwriter only that portion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

Policy contains clause providing that decision in suit against one subscriber shall be binding upon each of the others.

NEW YORK AND BOSTON LLOYDS, NEW YORK.

BURKE & BROWN, Attorneys.

SUBSCRIBERS.

E. J. Berwind, president Berwind White Coal Mining Company, New York.
 Henry P. Booth of Jas. E. Ward & Co., N. Y.
 Vernon H. Brown, Cunard Steamship Co., N. Y.
 Burke & Brown, New York.
 R. W. Cameron & Co., merchants, New York.
 Addison Cammack, 56 Broadway, New York.
 Eberhard Faber, merchant, New York.
 Wm. R. Grace, merchant, New York.
 Chas. A. Greene, of Borden & Lovell, New York.
 Richard V. Harnett, real estate, New York.
 C. F. Hovey & Co., dry goods, Boston.
 Geo. E. Leighton, president Bridge & Beach Manufacturing Company, St. Louis.
 Lesher, Whitman & Co., dry goods, New York.
 Geo. H. Lincoln, 23 Beaver street, New York.
 Leander N. Lovell of Borden & Lovell, New York.
 C. H. Mallory & Co., shipping commission merchants, New York.
 Donald Mitchell, builder, New York.
 John J. Mitchell, publisher, New York.
 R. C. Rathbone, attorney Assurance Lloyds, New York.
 Simmons Hardware Company, St. Louis.
 Wm. H. Starbuck, 22 William street, New York.
 C. B. Thurston, real estate agent, Pennsylvania Railroad Company, Jersey City.
 James E. Ward, 113 Wall street, New York.
 Wm. G. Weld, trustee the Weld estate, Boston.
 A. O. Wilcox & Son, marine insurance, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clauses additional:

SECOND.—The liability of each subscriber hereunder upon any loss is limited to his proportionate part of the aggregate amount payable upon such loss on all the insurances hereunder of all the subscribers. In no event shall the liability hereunder of any one subscriber for all losses exceed the sum hereinafter stated to be underwritten by him; and in no event shall one subscriber be held liable for any part of the sum underwritten by any other subscriber.

THIRD.—The total liability of each subscriber on all policies in force, subscribed for him by his said attorneys, after the application of his share of the total unexpended premiums, shall not exceed ten thousand dollars, the sum of two thousand dollars originally deposited by such subscriber with his said attorneys being therein included.

Policy contains clause providing that decision in suit against one subscriber shall be binding upon each of the others.

NEW YORK CENTRAL LLOYDS, NEW YORK.

CLARK & FITZGERALD, Attorneys.

SUBSCRIBERS.

Giles Everson of Everson & Co., Syracuse, N. Y.
 *B. S. Aldrich of B. S. Aldrich & Co., Syracuse, N. Y.
 John A. Fogg, wholesale boots and shoes, Boston.
 H. H. Mawhinney of H. H. Mawhinney & Co., Boston, Mass.
 Curtis Clark, general insurance, Boston, Mass.
 M. D. Wells of M. D. Wells & Co., Chicago, Ill.
 D. H. Burrell of D. H. Burrell & Co., Little Falls, N. Y.
 *Watts T. Loomis, lawyer, Little Falls, N. Y.
 George A. Harden, Little Falls, N. Y.
 Christian Cook, capitalist, Syracuse, N. Y.
 *Thomas Ryan, Onondago Brewery, Syracuse.
 Edward Joy, plumbers' supplies, Syracuse, N. Y.

*Thomas Hogan, lawyer, Syracuse, N. Y.

E. J. Kline, Syracuse, N. Y.

Daniel O'Brien, contractor, Syracuse, N. Y.

*Louis Will of Ackerman & Will, Syracuse, N. Y.

William E. Leffingwell, secretary and treasurer

Glen Spring San. Company, Watkins, N. Y.

Edward R. Jennings of Keeler & Jennings, Rochester, N. Y.

James E. Briggs, president of Lawyers Co-operative Publishing Company, Rochester, N. Y.

Milton Clark, insurance, Rochester, N. Y.

*J. J. Gilbert, Astorona Knitting Mills, Little Falls, N. Y.

*W. L. Lansing, treasurer Little Falls Electric

Light and Power Company, Little Falls, N. Y.

*Hadley Jones, treasurer Sutcliffe Brewing Company

of Auburn, N. Y., Little Falls, N. Y.

John W. Fitzgerald, insurance, Little Falls, N. Y.

W. S. Reed of the Little Falls Knitting Mill Com-

pany, Little Falls, N. Y.

H. D. Alexander, president Mohawk National

Bank, Mohawk, N. Y.

*Robert Earl, second assistant cashier Herkimer

Bank, Herkimer, N. Y.

Francis Baumer, mfg. wax goods, Syracuse, N. Y.

John S. Kaufman, Loos, Kaufman & Co., Syra-

cuse, N. Y.

*David J. Hamburger, wholesale hides and leather,

Syracuse, N. Y.

Stephen H. Mills of Stephen H. Mills & Co., N. Y.

* Member of advisory board.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of subscription hereto by such individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—In no event or contingency shall any one of the underwriters upon all policies issued by them collectively become liable for more than five thousand dollars, and all policyholders who shall sustain loss or damage shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

Policy contains clause providing that decision in suit against one underwriter shall be binding upon each of the others.

NEW YORK FIRE LLOYDS, NEW YORK.

ELIJAH R. KENNEDY, Attorney.

SUBSCRIBERS.

Cornelius N. Hoagland. Thomas Nelson & Sons.
 Darwin R. James. Hugh O'Neill.
 L. W. Lawrence. Hornthal, Weissman & Co
 Lee, Tweedy & Co. Francis Hendricks.
 Henry Newman. Jordan, Marsh & Co.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional:

And upon the further understanding and agreement that no subscriber shall be or become or be held liable by reason of a fire damaging or destroying property covered by policies signed by the said attorney for more than ten thousand dollars, and that if in consequence of such a fire the aggregate of adjusted claims against any subscriber hereto shall exceed ten thousand dollars on account of all

policies signed by said attorney and covering property damaged or destroyed by such fire each of such adjusted claims shall suffer a proportionate reduction sufficient to reduce the aggregate of such adjusted claims against such subscriber to the sum of ten thousand dollars.

Policy contains a clause providing that decision in suit against one subscriber shall bind each of the others.

NEW YORK MARINE UNDERWRITERS, NEW YORK.

CHUBB & SON, Managing Underwriters.

SUBSCRIBERS.

G. Amsinck & Co.
John Arbuckle, of Arbuckle Bros.
H. J. Baker & Brother.
Bruce & Cook.
George Burnham, John H. Converse, William P. Henszey, Baldwin Locomotive Works, Philadelphia.
Percy Chubb.
David Dows & Co.
Prescott Hall Butler, of Evarts, Choate & Beaman.
Chubb & Son.
Charles Myers, of Chubb & Son.
John Claffin, of H. B. Claffin & Co.
Henry Coffin.
I. Sherwood Coffin, of Coffin, Redington & Co.
Chauncey M. Depew, president N. Y. Central & H. R. R. R.
William Dick, of Dick & Meyer.
Francis E. Dodge, George M. Olcott, of Dodge & Olcott.
Daniel Donovan, of C. H. Garden & Co., Philadelphia.
Claus Doscher, Julius A. Stursberg, Henry Offerman, Brooklyn Sugar Refining Company.
Theodor Dreier, of Taylor & Co.
Joseph P. Earle, of Earle Bros.
T. C. Eastman.
James W. Elwell, of J. W. Elwell & Co.
Sigourney W. Fay, John F. Praeger, of Wendell, Fay & Co.
Charles R. Flint, of Flint & Co.
Anderson Fowler Company.
Anderson Fowler, of Anderson Fowler Company.
John S. Frothingham, of Frothingham, Baylis & Co.
C. Henry Garden.
John Gill, president Mercantile Trust & Deposit Company, Baltimore.
Charles D. Fisher, of Gill & Fisher, Baltimore.
W. R. Grace & Co.
Charles Graef.
T. J. Shipton Green.
John C. Hatley, Chicago.
William F. Havemeyer, John E. Searles, Jr., Havemeyer Sugar Refining Company.
Otto C. Heinze, of Heinze, Lowy & Co.
Henry L. Herbert.
Gustavus Heye.
F. W. J. Hurst.
Charles A. Heilmann, of Mourilyan, Heilmann & Co.
Karl Meissner, of Knoop, Frerichs & Co.
Wm. H. Lee, J. A. Tweedy, of Lee, Tweedy & Co.
Francis H. Leggett, of Francis H. Leggett & Co.
A. J. Forbes-Leith, president Illinois Steel Co.
Alex. Laird, agent Canadian Bank of Commerce.
C. Adolphe Low.
Girard C. W. Lowrey, of J. S. Lowrey & Co.
Lyon & Co., F. O. Matthiessen, John Jurgensen, F. O. Matthiessen & Wiechers Sugar Refining Company.
Meissner, Ackermann & Co.
George B. Moffat, of Spencer Trask & Co.
I. & C. Moore & Co.
Thomas A. McIntyre, Henry L. Wardell, of McIntyre & Wardell.
Anton Meyer, of Passavant & Co.

Frederick Muller, Wm. Schall, Jr., of Muller, Schall & Co.
George Mosle, of Mosle Bros.
Joseph J. O'Donohue, of O'Donohue Mercantile Co.
Alexander E. Orr, David Dows, George B. Cooksey, of David Dows & Co.
John Osborn, Son & Co.
Chas. S. Osborn, of John Osborn, Son & Co.
John Paton, of Cuyler, Moegan & Co.
W. H. Perot, Baltimore.
John J. Pierrepont.
Otto Plock.
Chas. M. Pratt, of Charles Pratt & Co.
James I. Raymond, of A. A. Vantine & Co.
G. Reusens.
Joseph Rudd.
Harold A. Sanderson, of Sanderson & Son.
John H. Seed, of Seed & Denby.
Charles H. Senff, of Havemeyers & Elder.
John Sinclair, Charles B. Soutter, of John Sinclair & Co.
Wm. H. Starbuck, president Housatonic Railroad.
Jerome Taylor.
Frank F. Thebaud, of Thebaud Brothers.
Charles Unger, of Unger, Smithers & Co.
E. H. Van Ingen, of E. H. Van Ingen & Co.
George F. Victor, of Frederick Victor & Achelis.
S. A. Warner.
James E. Ward, Henry P. Booth, W. H. T. Hughes, of James E. Ward & Co.
L. Waterbury & Co.
William Augustus White, Alfred T. White, of W. A. & A. M. White.
John D. Wing, of Wing & Evans.

LIABILITY OF UNDERWRITERS.

The New York Marine Underwriters issue three forms of policy, to wit: on hulls, cargoes and freight. A clause in the hull policy reads as follows:

And the assurers are contented, and do promise and bind themselves, severally and not jointly, nor any one for any other, their respective executors and administrators, to the assured, their executors, administrators or assigns, for the true performance of the premises, each one for his own part of the whole amount herein assured, and for such his proportion of all additional sums that may be endorsed hereon by said attorneys, only.

No clause in policy providing that decision in suit against the attorneys or one underwriter shall be binding upon the other underwriters.

NEW YORK RECIPROCAL UNDER- WRITERS, NEW YORK.

JOHN R. WATERS, Attorney and Manager.
Does inter-insurance only.

ADVISORY COMMITTEE.

Howard S. Jaffray of E. S. Jaffray & Co.
John McAuslan of Callender, McAuslan & Troup Co.
Carl Viotor of Frederick Viotor & Achelis.
James Halliday of Lee, Tweedy & Co.
A. Swan Brown of Pettis Dry Goods Company.

LIMITATION OF LIABILITY.

The exact New York Standard form of policy is used, with the following clause additional:

Each person, or firm, or corporation acting exclusively for such person, or firm, or corporation, and not for any other or others, and each represented under separate power of attorney by John R. Waters of the city, county and State of New York, and it being understood that wherever in this policy the word "company" occurs it means, and shall be taken and construed as meaning, the persons, firms or corporations whose names are subscribed to said policy by their said attorney, and as a part of the

contract contained in this policy that each of the subscribers hereto has entered into an agreement with each of the other subscribers to insure property against loss or damage by fire to the several amounts respectively authorized by said agreement upon the terms and conditions in said agreement expressed, which said agreement is hereby made a part of this contract, it being thereby provided that no subscriber shall in any event be made jointly liable with the others or with any one or any of the others or otherwise than severally, and that no subscriber shall be or become liable by reason of a fire involving several risks insured under policies issued pursuant to said agreement for more than ten times the maximum amount which the attorney aforesaid shall be authorized to write on any one risk for such subscriber, and that, if in consequence of such a fire the aggregate of the adjusted claims against any subscriber shall exceed ten times such maximum amount, each of said adjusted claims shall suffer a *pro rata* reduction sufficient to reduce such aggregate to a sum equal to said ten times such maximum amount.

No clause in policy providing that decision in suit against the attorney or one underwriter shall be binding upon the other underwriters.

NORTH AMERICAN LLOYDS, NEW YORK.

A. G. EVANS, Secretary.
Does inter-insurance only.

SUBSCRIBERS NOT GIVEN. LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clause additional:

No underwriter herein shall be or become liable by reason of a fire or fires damaging or destroying property, or otherwise causing loss of property, covered by several policies, issued pursuant to the agreement entitled "North American Lloyds—Articles of Agreement," for more than twenty-five thousand dollars; but, if, in consequence of such a fire or fires, the aggregate of adjusted claims against any underwriter hereon shall amount to more than twenty-five thousand dollars, each of such adjusted claims shall suffer a proportionate reduction sufficient to reduce such aggregate of adjusted claims against such underwriter to twenty-five thousand dollars.

Policy contains clause providing that decision in suit against the attorney shall be binding upon each underwriter.

PEOPLES FIRE LLOYDS, NEW YORK.

B. T. RHOADS, JR., Attorney.

SUBSCRIBERS.

Hon. Edw. V. Loew, capitalist, New York.
Hon. L. C. Dessary, attorney at law, New York.
James E. Morris, wholesale grocer, New York.
Daniel A. Moran, banker, New York.
Walter F. See, marble, New York.
P. J. Casey, sup. Western Union Tel. Co., N. Y.
Thos. J. Brady, sup. of buildings, city of N. Y.
J. Frank Patterson, insurance, New York.
Geo. P. Germain, insurance, Buffalo, N. Y.
Benj. T. Rhoads, Jr., insurance, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss,

and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of five hundred dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And in the event of a fire or fires occurring, whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than five times the maximum amount which under the said power of attorney the said Benj. T. Rhoads, Jr. shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fire or fires shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited; and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed twenty-five hundred dollars (the original subscription of \$500 each being therein included).

Policy contains clause providing that decision in suit against the attorney shall be binding upon each of the underwriters.

PHILADELPHIA FIRE LLOYDS, PHILADELPHIA.

S. B. VROOMAN, Attorney.

SUBSCRIBERS.

* J. K. Cumming, president Columbia Avenue Savings Fund, Safe Deposit, Title and Trust Co.
* R. H. Foerderer, leather manufacturer.
* B. J. Woodward, vice-president of the Tenth National Bank.
* C. A. Furbush, treasurer Southwark Mills Co.
* S. B. Vrooman, importer and manufacturer of mahogany and cedar lumber.
J. Gibson McIlvaine of J. Gibson McIlvaine & Co., lumber merchants.
Edwin F. Partridge, president American Pipe and Manufacturing Company.
James Dobson of J. & J. Dobson, carpet mfrs.
Elmer D. Wilt of A. Wilt & Sons, builders' mill.
Wm. C. Williamson of Williamson Brothers, engineers, machinists and boiler makers.
A. H. Hulshizer, director Industrial Trust Company.
J. H. W. Chestnut, director American Trust, Loan and Guaranteed Investment Company.
Adolph Woll, of Peter Woll & Sons.
* Member of advisory committee.

LIMITATION OF LIABILITY.

The New York and Pennsylvania Standard form of policy is used, with the following clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such firm or individual, and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—If by reason of a fire several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon such policies collectively become liable for more than ten times the maximum

amount which under the said power of attorney the said Samuel B. Vrooman shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such a fire shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claim shall bear to the total liability of each underwriter as thus limited.

No clause in policy providing that decision in suit against the attorney or against one underwriter shall be binding upon the other underwriters.

SECURITY FIRE LLOYDS, NEW YORK.

J. G. ALDEN, Attorney.

SUBSCRIBERS.

John W. Castree, retired, New York city.
Wm. B. Tremaine, treas. Æolian Co., N. Y.
Frederick C. Alden, with Æolian Co., N. Y.
Theodore Gaddis, merchant, Newark, N. J.
James E. Garabrant, real estate, Newark, N. J.
Peter Lowentraut, manufacturer, Newark, N. J.
James G. Alden, insurance, New York city.
F. J. Kastner, president Phoenix Brewing Co., Newark, N. J.
J. E. Eisele, m'g'r Equitable Life, Newark, N. J.
H. L. Gleason, treasurer Hitchcock Wagon Co., Cortland, N. Y.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used, with the following clause additional:

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss, and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of five hundred dollars. In no event or contingency shall any writer hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy, their liability being several and not joint. And in the event of a fire or fires occurring, whereby several risks insured under policies issued pursuant to the said power of attorney are involved, no one of the underwriters hereon shall upon all such policies collectively become liable for more than four times the maximum amount which, under the said power of attorney, the said James G. Alden shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such fire or fires shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited; and the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed two thousand dollars (the original subscription of \$500 each being therein included).

Policy contains clause providing that decision in suit against the attorney shall be binding upon each underwriter.

SOUTH AND NORTH AMERICAN LLOYDS, NEW YORK.

WHIPPLE & Co., Attorneys,

SUBSCRIBERS.

Isaac Brandon, Isaac Brandon & Bros., New York.
Joshua Piza, Piza, Nephews & Co., New York.
J. J. Lindo, Piza, Nephews & Co., New York.

Chester C. Munroe, Hoadley & Co., New York.
J. Dobson Good, Valentine Bros., New York.
Fred Valentine, Valentine Bros., 1244 B'way, N. Y.
Wm. H. Hurst, president Stock Quotation Telegraph Company, New York.
Albert Fuentes, Valentine Bros., New York.
Charles H. Green, president Hektograph Manufacturing Company, New York.
Herman Knubel, secretary Colombia Nav. and Com. Company, New York.
A. L. Fulenwider, sec. Baldwin Bros. Co., N. Y. Company, New York.
Wm. P. Ferguson, secretary American Forcrite Powder Manufacturing Company, New York.
Rafael E. Parraga, Parraga Brothers, New York.
J. Ferro, 25 William street, New York.
James Walsh, banker, New York.
Felix F. Marache, 52 Exchange place, New York.
George F. Holton, Eastern Steamship Co., N. Y.
John T. Fenlon, lawyer, New York.
James P. Silo, auctioneer, New York.
David F. Casey, Whipple & Co., New York.
J. L. Parraga, Whipple & Co., New York.
F. R. Whipple, Whipple & Co., New York.
Frederick Fuchs, drugs, New York.
Juan F. Merino, 285 Stuyvesant ave., B'klyn, N. Y.
Chas. E. Parker, adjuster and appraiser, New York.
Anthony & Chew, marine adjusters, New York.
C. S. Parker, adjuster and appraiser, New York.
Carlos M. Ponthier, Samper & Jimenez, New York.
F. C. Travers, president Travers Bros. Company.
James W. Eder, 123 W. Eightieth street, New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following special clauses additional:

FIRST.—In no event or contingency shall the liability of any underwriter hereon exceed the amount of the subscription hereto by such firm, corporation or individual and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter.

SECOND.—If by reason of a fire several risks insured under policies issued pursuant to the said power of attorneys are involved in such fire, no one of the underwriters hereon shall upon such policies collectively become liable for more than five times the maximum amount which, under the said power of attorneys, the said Whipple & Co. shall be authorized to subscribe for each of said underwriters on any one policy, and all policyholders who shall sustain loss or damage from such a fire, shall be entitled to recover as against each underwriter only that proportion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

No clause in policy providing that decision in suit against the attorneys or one underwriter shall be binding upon the other underwriters.

UNION LLOYDS, NEW YORK.

BILLUPS & WILEY, Attorneys.

SUBSCRIBERS.

*Franklin Everhart, stocks and bonds, 47 Broadway, N. Y.
*Percy A. Pickrell, stocks and bonds, 38 Wall street, New York.
E. A. Hopkins, pres. Helena Coal Co., Philadelphia.
W. M. Wiley, insurance, 46 Cedar street, New York.
John P. Williams, banker, Nashville, Tenn.
J. M. Billups, Jr., insurance, 46 Cedar street, N. Y.
*A. C. Saportas, exporter, Corn Exchg. Bank, N. Y.
Wm. C. Beecher, attorney-at-law, 237 B'way, N. Y.

*C. S. Wilson, insurance, 46 Cedar st., New York.
 Percy B. McLaran, banker and broker, 203 East Baltimore street, Baltimore, Md.
 J. D. Thompson, general manager New York State Dept. Fidelity Mutual Life, 271 B'way, N. Y.
 Willis B. Marvin, Herring-Hall-Marvin Safe Co., New York.
 Joshua Brown, stock broker, 80 Broadway, N. Y.
 M. C. Dougherty of the Union National Gas Savings Co., 744 Broadway, New York.
 James H. Caldwell, attorney-at-law, 71 B'way, N. Y.
 S. St. J. McCutchen, attorney-at-law, 170 Broadway, New York.
 Geo. N. Morton, contractor, 47 Broadway, N. Y.
 E. O. Quigley of Quigley & Tuttle, 6 Wall st., N. Y.
 E. A. Scribner, president Loando Hard Rubber Co., Boonton, N. J.
 *Chas. H. Taylor of Olmstead & Taylor, 44 Broad street, New York.

*Member of advisory board.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clause additional :

The liability of each of the underwriters in case of any loss and the amount insured by each underwriter shall be his proportionate part of the aggregate amount payable to the insured upon such loss and no one of the underwriters shall be, in any event, liable under this policy for an amount exceeding the sum of one thousand dollars. In no event or contingency shall any underwriter hereon be liable for any part of any other underwriter's liability hereon, the liability assumed hereby by each underwriter being separate and individual only, as if each underwriter had issued to the assured herein a separate policy; their liability being several and not joint. And the total liability of each underwriter on all policies now or hereafter in force after the application of the total unexpended premiums, shall not exceed five thousand dollars (the original subscription of \$1000 each being therein included).

Policy contains clause providing that decision in suit against the attorneys shall be binding upon each of the underwriters.

UNITED STATES LLOYDS (MARINE), NEW YORK.

HIGGINS, COX & BARRETT, Attorneys.

SUBSCRIBERS.

John Crosby Brown.	J. Pierpont Morgan.
Timothy Hogan.	J. Hood Wright.
Eugene Kelly.	G. S. Bowdoin.
Henry D. Babcock.	Morton, Bliss & Co.
Samuel D. Babcock.	George Bliss.
Benj. F. Babcock.	Richard J. Cross.
James I. Raymond.	Henry B. Laidlaw.
Arthur B. Graves.	Robert Colgate.
Wood & Payson.	Blake Bros. & Co.
Flint & Co.	G. Amsinck & Co.
John D. Wood.	R. T. Wilson & Co.
Emil Heinemann.	R. T. Wilson.
Solom Humphreys.	Oliver Harriman.
John T. Terry.	Gust. Heye.
Morris K. Jesup.	Geo. L. Elliott.
A. Iselin & Co.	David Dows & Co.
Adrian Iselin.	Charles H. Blake.
J. D. Barrett.	Woodward, Baldwin & Co.
Wm. E. Tefft.	J. O'Donoghue's Sons.
F. Griswold Tefft.	Stephen W. Corey.

Arnold, Constable & Co.	Martin Bates, Jr., & Co.
Sweetser & Pembroke.	Samuel H. Dollard.
Dunham, Buckley & Co.	Wm. A. Wheelock.
John Claffin.	T. W. Evans.
Wm. H. Lee.	Meissner, Ackermann & Co.
John Sloane.	Geo. A. Morrison.
John F. Pupke.	Augustus Heminway.
Seth M. Milliken.	Martin Bates & Sons.
Jos. J. O'Donohue.	E. Levering & Co.
Nehemiah W. Rice.	Amory A. Lawrence.
Harry O. Havemeyer.	James McCutcheon.
William Whitewright.	Burnham, Williams & Co.
Henry J. Barbey.	John & Jas. Dobson.
Wm. P. Clyde.	Thos. E. Proctor.
Wm. K. Hinman.	John A. Burnham.
C. Lawrence Perkins.	B. N. Baker.
Wm. P. Taber.	Joseph B. Thomas.
Henry M. Taber.	Rufus Woods.
G. Reusens.	Rufus Woods & Co.
Edmund Trouton.	Alexander Brown.
Leaycraft & Co.	Taylor & Levering.
Adolph Norden.	Wm. H. Dix.
Watjen, Toel & Co.	P. T. George & Co.
Wm. Toel.	Joshua Levering.
D. Appleton & Co.	F. W. Willson & Son.
A. E. Douglass.	W. H. Perot.
Jefferson Hogan.	Erastus Corning.
Wm. Ware & Sons.	James F. Cox.
Henry C. Tinker.	Levi P. Morton.
A. Foster Higgins.	
Drexel, Morgan & Co.	

UNITED UNDERWRITERS, NEW YORK.

J. A. KEHLBECK, Attorney,

SUBSCRIBERS.

James G. Beemer, capitalist, Yonkers, N. Y.
 Henry J. Newton, capitalist, New York.
 James A. Kehlbeck, insurance, New York.
 F. Foehrenbach of F. Foehrenbach & Co., N. Y.
 Fred H. Piper, The Pythian Reporter Co., N. Y.
 J. Foster Keeler, J. E. Keeler's Son, Bklyn, N. Y.
 H. H. Hobbs, adjuster, New York.
 Geo. L. Hunt, secretary Foote Commercial Phosphate Co., New York.

LIMITATION OF LIABILITY.

The New York Standard form of policy is used with the following clauses additional :

This policy is made and accepted upon the following further conditions : First, in no event or contingency shall the liability of any underwriter hereon exceed the amount of subscription hereto by such individual or firm and in no event or contingency shall any underwriter hereon be liable for any part of the sum subscribed by any other underwriter hereon, the liability assumed hereby by each underwriter being separate and individual only as if each underwriter had issued to the assured herein a separate policy, and not in any respect for the amount insured by any other underwriter. Second, in no event or contingency shall any one of the underwriters upon all policies issued by them collectively become liable for more than five thousand dollars, and all policyholders who shall sustain loss or damage shall be entitled to recover as against each underwriter only that portion of the adjusted claim on each policy which the aggregate of such claims shall bear to the total liability of each underwriter, as thus limited.

Policy contains a clause providing that decision in suit against one underwriter shall bind each of the others.

FIRE AND MARINE INSURANCE COMPANIES.

COMPARATIVE EXHIBIT OF TRANSACTIONS FOR FIVE YEARS.

The following tables show the transactions for the past five years of all joint-stock fire and marine insurance companies in the United States, and of mutual companies having more than \$15,000 cash assets, together with their condition at the end of each year :

AMERICAN STOCK COMPANIES.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended March 31	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
ALABAMA.												
CAPITAL CITY, Montgomery, 1871.	1893	\$150,000	\$310,837	\$137,222	\$23,615	\$39,062	\$22,635	\$61,607	\$30,924	\$12,000	\$27,593	\$69,517
E. B. Joseph, Pres., W. D. Brown, Vice- Pres., P. C. Smith, Sec.	1892	150,000	352,551	179,526	23,025	91,164	27,844	118,988	80,333	7,470	41,151	129,954
	1891	149,400	365,265	186,924	34,941	94,557	30,322	124,859	64,066	14,940	45,696	124,702
	1890	149,400	387,523	200,030	38,093	81,859	20,960	102,819	37,624	14,161	40,871	92,656
	1889	144,225	344,165	166,456	33,484	70,641	28,197	98,838	45,554	14,161	33,056	92,771
COMMERCIAL, Montgomery, 1876.	1893	100,000	101,356	61,985	-60,629	.....	.....	101,185	100,527	.....	35,358	135,885
S. C. Marks, Pres., Millard M. Sweatt, Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	100,000	187,205	84,334	2,871	156,105	17,397	173,412	97,615	8,000	58,174	103,789
	1890	100,000	177,020	74,851	2,169	139,964	6,367	146,331	88,622	6,000	47,333	141,955
	1889	100,000	179,699	99,191	-19,492	166,809	7,067	173,876	83,665	10,000	57,800	151,385
FACTORS AND TRADERS MUTUAL, Mobile, 1870.	1893	150,000	189,605	4,878	34,727	19,366	9,319	28,685	242	12,000	6,154	18,366
Wm. H. Ross, Pres., Joseph F. Mitchell, Sec.	1892	150,000	182,689	4,890	27,790	21,289	14,535	35,824	1,902	.....	8,911	10,813
	1891	150,000	170,239	14,191	6,048	25,141	8,765	33,908	.....	.....	8,495	8,944
	1890	150,000	168,039	31,500	-13,401	21,295	10,638	83,658	83,658	15,000	7,893	106,551
	1889	150,000	215,515	4,250	61,265	21,177	11,073	32,250	7,301	15,000	8,690	30,991

— Impairment.

PLANTERS AND MERCHANTS, Mobile,.....1866. W. H. Flispatrick, Pres., J. H. Tindall, Sec.	1893 1892 1891 1890 1889	100,000 100,000 100,000 100,000 100,000	97,086 110,393 108,731 139,539 135,498	32,849 29,321 31,966 55,966 24,541	-35,763 -18,998 -23,229 -23,374 957	11,621 12,370 20,251 4,801 36,600	6,380 4,042 10,334 26,743 37,104	18,011 17,012 30,565 26,743 73,704	628 2,793 12,893 48,648 57,091	..... ..... ..... ..... .....	7,500 6,887 17,124 13,386 18,830	8,128 9,686 30,017 62,028 75,921
STONEWALL, Mobile,.....1866. Wm. J. Hearin, Pres., John Gaillard, Sec.	1893 1892 1891 1890 1889	150,000 150,000 150,000 150,000 150,000	209,798 205,076 223,324 209,461 243,660	12,477 10,438 36,552 31,543 7,950	47,321 44,038 36,772 27,918 85,710	21,135 31,321 31,321 11,069 26,919	11,081 11,081 9,581 11,996 11,325	32,216 41,970 41,754 43,090 38,244	2,787 1,412 2,018 72,410 4,532	14,880 14,730 15,212 17,518 15,480	7,023 15,212 7,518 13,827 11,151	24,690 31,354 21,226 101,717 30,683
ARKANSAS, Little Rock,.....1887. John G. Fletcher, Pres., John F. Boyle, Sec.	1893 1892 1891 1890 1889	64,875 59,950 59,950 54,975 50,000	68,619 89,561 80,263 79,117 69,091	25,936 24,050 13,732 16,071 13,264	7,808 5,561 6,581 8,071 5,827	28,399 22,964 14,545 14,654 12,072	5,499 4,002 6,011 6,076 3,748	33,898 27,190 20,556 19,730 15,820	9,689 11,863 16,299 6,057 2,134	..... *14,950	13,228 6,697 4,227 3,581	22,287 18,500 16,299 10,352 5,715
FIREMANS FUND, San Francisco †.....1863. David J. Staples, Pres., Wm. J. Dutton, Vice- Pres., Bernard Raymondville, ad Vice-Pres. and Sec., J. B. Levison, Mar. Sec., Louis Wein- mann, Asst. Sec.	1893 1892 1891 1890 1889	1,000,000 1,000,000 1,000,000 1,000,000 1,000,000	3,111,490 3,037,773 2,844,396 2,630,390 2,433,718	1,378,422 1,356,733 1,177,211 1,027,380 947,286	723,068 680,974 667,178 603,082 486,438	1,622,853 1,799,124 1,498,990 1,333,699 1,237,769	127,327 128,060 130,517 120,559 109,858	1,820,180 1,866,184 1,869,990 1,454,198 1,347,647	1,031,124 1,064,780 793,559 691,819 728,807	120,000 120,000 120,000 120,000 120,000	555,947 578,500 499,017 448,642 416,383	1,797,071 1,793,340 1,412,576 1,208,461 1,265,190
HOME MUTUAL, San Francisco †.....1864. Charles R. Story, Pres., S. D. Ives, Sec.	1893 1892 1891 1890 1889	300,000 300,000 300,000 300,000 300,000	964,685 940,076 878,137 867,512 821,517	361,922 351,553 320,992 294,750 281,872	322,753 278,523 257,145 272,762 239,645	411,007 409,310 393,296 350,919 345,120	45,664 50,894 48,037 43,266 44,852	456,671 400,204 411,333 394,185 389,972	108,905 167,163 160,091 142,339 192,375	36,054 7,223 35,032 35,382 36,000	186,076 230,024 219,274 184,698 181,616	421,035 404,410 415,297 362,419 499,991
OAKLAND HOME, Oakland †.....1880. V. D. Moody, Pres., Wm. F. Blood, Sec.	1893 1892 1891 1890 1889	200,000 200,000 200,000 200,000 200,000	533,631 583,390 550,000 500,192 461,689	311,476 377,538 370,845 227,640 207,100	22,155 65,162 73,163 72,552 54,589	593,491 612,657 595,932 375,354 381,809	118,537 18,029 18,897 19,962 19,652	712,022 690,666 624,829 393,316 191,461	455,395 283,449 283,777 197,806 198,002	12,000 18,000 18,000 18,000 17,833	245,260 234,227 198,021 165,748 136,872	712,585 618,696 499,798 381,554 332,707
SUN, San Francisco.....1882. C. L. Taylor, Pres., Wm. H. Friend, Sec.	1893 1892 1891 1890 1889	300,000 300,000 300,000 300,000 300,000	544,538 532,451 555,614 535,815 515,021	231,305 190,822 196,381 197,411 202,570	13,143 41,629 59,233 248,682 12,451	310,790 292,933 254,060 32,323 262,585	25,214 29,245 21,737 32,323 25,903	335,943 322,108 270,387 136,002 288,488	173,296 193,968 137,924 137,042 193,325	30,000 30,000 30,000 30,000 15,000	113,468 120,681 108,502 100,359 100,801	316,704 344,649 270,420 268,361 399,126
ÆTNA, Hartford.....1819. Wm. B. Clark, Pres., A. C. Bayne, Vice-Pres., Jas. F. Dudley, Sec., Wm. H. King and E. O. Weeks, Asst. Secs.	1893 1892 1891 1890 1889	4,000,000 4,000,000 4,000,000 4,000,000 4,000,000	10,759,612 10,867,616 10,654,739 10,453,097 10,055,860	3,811,722 3,328,240 2,664,862 2,619,235 2,375,619	2,948,200 3,398,376 3,289,337 3,833,862 3,686,241	4,161,942 3,715,057 3,326,488 3,140,397 2,833,966	422,845 470,815 462,903 440,019 427,311	4,644,767 4,185,822 3,789,391 3,580,366 3,261,237	2,522,812 2,117,272 1,844,990 1,592,307 1,634,843	720,000 720,000 720,000 720,000 720,000	1,240,998 1,127,914 1,024,761 964,003 910,700	4,483,810 3,965,186 3,597,750 3,274,310 3,265,543

* Since organization; payable in stock. † Reins., 1894, in Firemans Fund. ‡ Statement according to California standard. § Controlled by Firemans Fund, San Francisco. —Impairment.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
CONNECTICUT—Continued.												
CONNECTICUT, Hartford.....1850.	1893	1,000,000	2,831,089	1,491,396	\$339,693	1,640,040	\$125,350	1,765,390	1,091,143	\$80,000	\$574,447	1,745,590
J. D. Browne, Pres., Chas. R. Burr, Sec.	1892	1,000,000	2,890,668	1,293,954	518,744	1,518,236	118,223	1,636,459	880,466	80,000	544,582	1,595,048
	1891	1,000,000	2,632,228	1,081,639	550,589	1,279,837	114,217	1,394,054	761,102	80,000	464,957	1,395,759
	1890	1,000,000	2,500,393	931,488	568,905	1,138,146	107,424	1,245,570	580,953	80,000	400,333	1,661,286
	1889	1,000,000	2,347,693	825,438	522,255	1,069,531	98,273	1,167,804	664,420	80,000	386,893	1,131,313
HARTFORD, Hartford.....1810.	1893	1,250,000	7,372,022	3,831,322	2,290,770	4,070,902	305,658	4,376,560	2,273,199	300,000	1,368,975	3,822,174
Geo. L. Chase, Pres., P. C. Royce, Sec., Thos.	1892	1,250,000	7,100,895	3,270,890	2,570,935	3,557,431	294,849	3,852,280	2,101,666	300,000	1,136,269	3,537,935
Turnbull and Chas. E. Chase, Asst. Secs.	1891	1,250,000	6,743,047	2,942,820	2,550,227	3,260,916	436,882	3,697,798	2,058,551	300,000	1,086,689	3,445,440
	1890	1,250,000	6,576,616	2,715,241	2,611,375	3,071,635	267,552	3,339,187	1,587,868	300,000	1,011,253	2,899,061
	1889	1,250,000	6,139,454	2,436,376	2,453,078	2,821,339	238,195	3,059,534	1,624,370	250,000	930,184	2,804,554
NATIONAL, Hartford.....1871.	1893	1,000,000	3,244,006	2,044,896	199,110	1,909,393	131,665	2,120,958	1,199,217	100,000	666,141	1,965,358
Jas. Nichols, Pres., E. G. Richards, Sec.	1892	1,000,000	3,153,454	1,747,543	405,911	2,012,515	138,552	2,151,067	1,074,975	100,000	736,550	1,911,525
	1891	1,000,000	2,904,796	1,370,105	534,691	1,537,594	125,642	1,663,166	743,045	100,000	558,095	1,401,140
	1890	1,000,000	2,620,213	1,061,669	558,544	1,178,477	117,808	1,296,285	572,517	100,000	423,852	1,096,369
	1889	1,000,000	2,443,937	890,422	553,515	1,013,840	119,118	1,132,958	565,297	100,000	355,926	1,021,223
NORWALK, Norwalk.....1860.	1893	50,000	101,591	20,862	30,719	22,025	3,423	25,448	5,102	4,477	7,407	16,986
A. G. McIlwaine, Pres., Geo. R. Cowles, Sec.	1892	50,000	93,975	8,395	35,670	10,538	3,413	13,971	7,027	.....	5,475	12,502
	1891	50,000	95,343	5,799	39,544	7,861	6,200	14,067	7,664	4,000	4,715	16,379
	1890	50,000	94,373	6,484	37,889	8,092	4,403	12,495	6,123	4,000	4,770	14,893
	1889	50,000	97,944	5,974	41,970	7,748	4,832	12,586	3,854	4,000	5,069	12,923
ORIENT, Hartford.....1872.	1893	500,000	2,087,394	1,268,998	318,396	1,417,956	95,352	1,513,308	1,100,321	.....	480,213	1,586,534
Chas. B. Whiting, Pres., Jas. U. Taintor,	1892	1,000,000	2,246,867	1,198,116	48,751	1,462,148	90,114	1,552,262	935,407	60,000	481,588	1,476,995
Sec., Howard W. Cook, Asst. Sec.	1891	1,000,000	2,124,297	968,920	155,377	1,263,980	92,468	1,256,448	682,191	60,000	407,269	1,149,460
	1890	1,000,000	1,977,462	794,924	182,538	1,018,072	83,300	1,101,372	563,995	60,000	362,312	986,307
	1889	1,000,000	1,856,722	674,923	161,799	837,371	80,184	917,555	523,083	60,000	298,600	883,683
PHENIX, Hartford.....1854.	1893	2,000,000	5,494,044	2,780,848	713,196	3,306,240	297,225	3,603,465	2,275,997	280,000	1,163,210	3,719,117
D. W. C. Skilton, Pres., J. H. Mitchell, 1st	1892	2,000,000	5,168,322	2,644,052	1,240,264	3,366,127	240,894	3,607,021	2,118,957	280,000	1,182,258	3,581,215
Vice-Pres., C. E. Galacuz, 2d Vice-Pres., Geo.	1891	2,000,000	5,076,367	2,341,926	1,336,401	3,097,910	239,949	3,147,839	1,744,744	280,000	984,493	3,133,237
H. Burdick, Sec., John B. Knox, Asst. Sec.	1890	2,000,000	5,624,815	2,107,735	1,517,080	2,652,591	226,530	2,876,121	1,440,398	280,000	890,929	2,665,327
	1889	2,000,000	5,395,004	2,003,769	1,301,235	2,559,539	218,511	2,778,050	1,623,183	280,000	832,536	2,737,719

† Majority of stock owned by the London and Lancashire.

SECURITY, New Haven.....1841. Chas. S. Leete, Pres., H. Mason, Sec.	1893 1892 1891 1890 1889	200,000 250,000 250,000 250,000 250,000	566,213 700,153 661,923 722,443 660,454	337,694 399,027 381,575 393,652 339,349	28,519 51,126 30,348 78,791 71,105	433,709 572,212 566,519 613,914 464,522	25,321 25,321 28,347 27,003 23,341	459,090 597,533 594,866 640,917 487,863	406,401 378,400 438,591 343,175 300,898	..... ..... 10,000 20,000 17,500	143,056 193,245 210,380 216,455 162,425	549,457 571,645 658,971 579,630 466,823
DISTRICT OF COLUMBIA.													
ARLINGTON, Washington.....1872. Walter S. Cox, Pres., Frank T. Rawlings, Sec.	1893 1892 1891 1890 1889	200,000 200,000 200,000 200,000 200,000	301,643 300,856 293,887 293,605 285,258	9,837 10,742 11,263 15,402 9,859	91,806 90,114 82,624 78,203 75,399	17,791 19,300 19,796 18,890 18,222	19,051 20,112 19,177 18,179 30,095	36,842 39,412 38,966 37,069 48,317	6,578 1,462 2,770 5,940 1,434	16,000 16,000 16,000 16,000 16,000	14,289 14,795 15,273 12,167 12,740	36,867 32,245 34,043 34,107 36,174	
COLUMBIA, Washington.....1881. F. B. McGuire, Pres., Lem Towers, Jr., Sec.	1893 1892 1891 1890 1889	100,000 100,000 100,000 100,000 100,000	215,468 210,144 201,006 188,899	15,209 15,000 15,000 15,000	100,259 95,144 86,006 73,829	28,079 32,240 27,122 26,790	11,865 12,356 11,772 9,628	39,944 44,596 38,894 36,348	8,042 9,775 5,124 1,305	12,000 12,000 10,000 8,000	15,164 15,348 11,704 10,276	35,206 37,123 26,828 19,581	
COMMERCIAL, Washington.....1890. W. S. Hoge, Pres., J. W. Schaefer, Sec.	1893 1892 1891	100,000 100,000 100,000	135,370 120,727 114,143	..... 3,000	35,370 20,727 11,143	..... 6,323 .....	..... 9,299 .....	..... 15,622 .....	..... 296 .....	..... ..... .....	..... 5,469 .....	..... ..... 5,795
CORCORAN, Washington.....1873. Chas. A. James, Pres., L. R. Peak, Sec.	1893 1892 1891 1890 1889	100,000 100,000 100,000 100,000 100,000	164,994 154,181 150,526 143,685	8,000	56,994 54,181 50,526 43,685	15,822 13,440 14,072 12,933	11,629 10,545	27,451 24,617	5,407 2,750 1,084 1,542	6,000 6,000 6,000 6,000	11,062 9,204	22,469 16,288	
FIREMENS, Washington.....1837. A. A. Wilson, Pres., C. W. Howard, Sec.	1893 1892 1891 1890 1889 100,000 278,461 16,970 44,767 4,253 10,927 15,180
FRANKLIN, Washington.....1818. Daniel B. Clarke, Pres., Will P. Boteler, Sec.	1893 1892 1891 1890 1889	125,000 125,000 125,000 125,000 125,000	263,755 265,950 268,771 266,891 334,693	16,197 15,000 15,000 15,000 15,000	122,558 125,950 128,771 126,891 194,693	22,151 25,954 23,918 23,974 24,093	11,405 12,469 10,917 11,675 10,767	33,556 38,423 34,835 35,649 34,860	9,430 11,422 1,740 3,978 2,469	12,107 12,500 12,500 12,500 10,000	8,926 11,654 12,471 11,860 11,090	30,463 35,576 26,711 28,338 23,499	
GERMAN-AMERICAN, Washington.....1873. F. J. Heiberger, Pres., H. H. Bergmann, Sec.	1893 1892 1891 1890 1889	100,000 100,000 100,000 100,000 100,000	217,315 214,814 212,013 212,060 182,128	15,896 20,693 24,615 29,176 8,859	101,439 94,181 87,398 82,884 73,269	21,753 21,266 19,229 18,352 17,720	11,997 11,689 11,091 13,087 10,919	33,750 32,955 30,320 31,439 28,699	8,001 7,733 8,778 4,704 5,037	10,000 10,000 10,000 10,000 10,000	7,969 7,374 7,191 6,744 7,233	25,970 25,107 25,899 21,448 22,270	

† \$125,000 subscribed; \$25,000 paid up.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other than Losses and Dividends	Total Disburse- ments.
DISTRICT OF COLUMBIA—Continued.												
LINCOLN, Washington.....1890.	1893	\$100,000	\$157,198	(b)	\$57,198	\$26,666	\$8,606	\$35,275	\$8,318	\$6,000	\$6,798	\$21,046
John T. Arms, Pres., Frank H. Barbarin, Sec.	1892	100,000	146,955	\$115,849	.....	31,700	7,277	38,977	2,641	.....	10,975	13,616
	1891	100,000	122,022	8,000	14,022	16,628	5,925	22,553	391	.....	8,504	8,895
	*1890	100,000	106,901	4,500	1,701	17,051	2,525	11,289	978	.....	5,120	6,098
NATIONAL CITY, Washington.....1894.	1894	300,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
C. H. Burgess, Pres., L. W. Spear, Sec.												
NATIONAL METROPOLITAN, Washington.....1870.	1893	100,000	200,900	9,200	91,700	17,808	11,205	29,013	5,807	8,000	8,768	22,575
Edward Clark, Pres., Samuel Cross, Sec.	1892	100,000	195,663	9,050	86,613	18,101	11,596	29,697	4,667	7,000	9,478	21,145
	1891	100,000	189,097	7,880	81,217	16,637	11,702	28,339	1,443	7,500	7,081	16,024
	1890	100,000	178,959	8,543	70,416	17,086	9,390	26,476	3,175	6,000	8,413	17,588
	1889	100,000	171,882	8,785	63,102	17,551	9,500	27,061	2,332	6,000	8,059	16,391
NATIONAL UNION, Washington.....1865.	1893	100,000	261,671	(b)	161,671	18,216	16,517	34,733	9,722	18,000	13,110	40,832
Hy. O. Towles, Pres., Noble D. Larnier, Sec.	1892	100,000	270,164	14,200	155,964	19,649	18,474	38,123	4,487	20,000	17,086	41,573
	1891	100,000	266,986	.....	18,405	18,405	.....	.....	7,770	20,000	.....	.....
	1890	100,000	.....	.....	160,004	20,042	.....	.....	1,888	20,000	.....	.....
	1889	100,000	267,083	12,000	155,083	20,930	16,295	37,225	6,358	20,000	9,328	35,686
PEOPLES, Washington†.....1889.	1893	100,000	130,469	(b)	30,469	13,320	7,705	21,026	6,810	6,000	7,297	20,107
John G. Slater, Pres., Henry K. Simpson, Sec.	1892	100,000	128,442	8,830	19,612	13,245	7,568	20,813	2,088	6,000	5,796	13,884
	1891	100,000	121,129	4,737	16,392	10,150	6,407	16,557	363	3,000	5,744	9,107
	1890	100,000	109,040	4,426	4,614	9,486	5,161	14,647	2,813	.....	4,818	7,631
	1889	100,000	101,060	844	216	2,188	27	2,215	.....	.....	1,156	1,156
POTOMAC, Georgetown.....1867.	1893	75,500	193,526	8,826	109,900	17,683	11,144	28,797	4,059	9,060	9,230	22,349
H. M. Sweeney, Pres., Joseph H. Bradley, Sec., A. H. Proctor, Asst. Sec.	1892	75,500	200,782	9,327	115,955	16,884	10,339	27,223	1,846	13,590	8,380	23,816
	1891	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1890	75,500	182,033	106,533	.....	.....	.....	.....	.....	.....	.....	.....
RIGGS, Washington.....1883.	1893	100,000	147,625	8,500	39,125	15,783	8,640	24,423	3,437	6,000	9,738	19,175
M. W. Beveridge, Pres., Harry C. Birge, Sec.	1892	100,000	140,661	7,500	33,161	.....	.....	.....	.....	.....	.....	.....
	1891	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1889	100,000	128,005	5,500	22,505	11,007	7,254	18,261	468	.....	6,491	6,959

† Began business June 1, 1890.

‡ Reinsurance reserve.

§ No provision for reserve.

¶ Began business November 4, 1889.

[illegible]

Includes payments to scripholders.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended 1900	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
ILLINOIS—Continued.												
GERMAN, Peoria.....1876.	1893	\$200,000	\$357,587	\$113,795	\$43,792	\$84,352	\$19,406	\$103,758	\$91,185	\$18,000	\$44,787	\$153,972
Bernard Cremer, Pres., Charles Cremer, Sec.	1892	200,000	400,380	159,644	40,736	176,146	13,978	192,124	118,958	.....	66,321	185,279
	1891	300,000	412,998	102,348	10,650	211,138	22,109	233,247	143,816	18,000	82,558	236,973
	1890	300,000	428,976	110,022	18,954	218,041	22,698	240,739	133,882	18,000	82,558	294,440
	1889	300,000	433,222	102,463	30,759	196,583	19,925	216,508	121,202	18,000	73,556	212,758
INS. CO. OF NORTHERN ILLINOIS, Rockford...1893.	1893	200,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
METHODIST ASSURANCE ASS'N., Chicago.....1893.	1893	200,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ROCKFORD, Rockford.....1866.	1893	200,000	983,319	700,355	82,964	546,477	35,493	581,570	294,887	32,000	243,810	570,697
John Lake, Pres., Chas. E. Sheldon, Sec.	1892	200,000	1,007,393	791,555	105,746	470,371	36,517	508,888	176,049	32,000	207,184	417,233
	1891	200,000	825,871	531,561	94,310	381,320	30,811	418,131	177,451	32,000	195,986	395,437
	1890	200,000	801,489	511,275	60,214	379,510	33,944	413,454	147,157	32,000	176,120	355,277
	1889	200,000	755,826	472,007	83,819	411,990	31,860	443,850	177,274	32,000	173,623	382,897
TRADERS, Chicago.....1865.	1893	500,000	1,696,810	605,125	591,685	666,074	89,654	745,728	489,676	50,000	231,378	771,054
E. Buckingham, Pres., R. J. Smith, Sec.	1892	500,000	1,793,492	522,376	681,026	582,381	60,996	643,377	400,663	50,000	204,818	655,481
	1891	500,000	1,566,764	559,533	507,231	621,565	61,177	682,742	384,604	50,000	214,855	649,459
	1890	500,000	1,406,406	512,799	393,607	597,817	59,825	597,642	352,744	50,000	195,991	598,735
	1889	500,000	1,334,268	449,479	384,789	597,587	58,467	586,054	393,999	50,000	183,092	627,091
INDIANA. c												
CITIZENS, Evansville.....1832.	1893	200,000	229,763	28,207	1,556	.....	.....	.....	.....	.....	.....	.....
Jas. T. Layman, Pres., A. W. Emery, Sec.,	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
H. S. Bennett, Asst. Sec.	1891	200,000	231,206	21,585	9,621	70,478	1,170	71,648	46,869	.....	21,143	67,952
	1890	200,000	233,976	30,364	3,612	73,395	18,010	91,405	35,211	.....	22,018	57,229
	1889	200,000	219,735	18,749	986	57,610	2,170	59,780	36,590	4,000	20,739	61,399
EVANSVILLE, Evansville.....												
D. J. Mackey, Pres., A. W. Emery, Sec., H.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. Bennett, Asst. Sec.	1892	250,000	285,381	31,774	3,667	78,863	.....	83,173	52,286	.....	.....	.....
	1891	250,000	289,536	34,990	4,546	89,757	90,226	118,983	27,590	25,000	23,509	75,795
	1890	250,000	265,056	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1889	250,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FIREMENS AND MECHANICS, Madison.....												
S. M. Strader, Pres., W. O. McLeland, Sec.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

+ Includes stockholders' notes. ‡ Reorganized 1889. § Reorganized in 1897. c Indiana companies operate under special charters; do not report to insurance department.
d March 30, 1894.

FORT WAYNE, Fort Wayne a.....1891.	1893	200,000	208,656	19,178	8,122	35,860	17,223	53,083	12,539	12,400	12,910	37,849
John H. Jacobs, Pres., J. E. Beahler, Sec.	1892	200,000	227,300	6,951	5,115	17,377	4,701	22,138	3,504	.....	6,507	10,071
1891	1891	200,000	212,066	.....	.....	.....	.....	.....	.....	.....	.....	.....
FRANKLIN, Evansville.....1890.	1893	200,000	217,247	11,365	5,882	15,647	1,137	16,784	10,566	.....	5,508	16,074
A. M. Well, Pres., D. F. Norton, Sec.	1892	200,000	214,845	9,556	5,289	15,423	1,022	16,445	9,152	.....	6,042	15,194
1891	1891	200,000	213,321	10,955	5,626	20,738	738	27,470	6,008	.....	9,452	15,458
1890	1890	200,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
INDIANA, Indianapolis b.....1851.	1893	150,000	202,869	30,142	22,727	56,323	9,878	66,201	36,488	8,100	.....	65,231
N. S. Byram, Pres., M. V. McGilliard, Sec.	1892	150,000	201,868	29,794	22,104	43,588	39,952	83,540	35,625	4,500	10,217	56,348
1891	1891	150,000	174,700	19,410	5,200	44,928	7,994	52,922	32,473	6,000	16,238	54,711
1890	1890	150,000	176,490	19,610	6,880	65,812	2,097	67,909	32,326	4,500	26,913	63,739
1889	1889	150,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
INDIANA UNDERWRITERS, Indianapolis b.....1851.	1893	300,000	415,980	55,846	60,134	107,525	24,325	131,850	64,044	20,100	38,564	122,708
McGilliard & Dark, General Agents.	1892	300,000	406,838	54,098	52,740	76,104	75,006	151,200	47,315	16,500	26,708	90,523
1891	1891	300,000	346,261	35,729	10,532	86,385	16,570	96,953	50,312	18,000	27,697	90,209
1890	1890	300,000	345,516	32,791	12,725	97,855	102,097	199,952	35,824	8,500	36,000	80,924
1889	1889	300,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MADISON, Madison.....1890.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
W. H. Powell, Pres., R. W. Hubbard, Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1891	1891	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PROTECTIVE, Indianapolis.....1894.	1894	5,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chas. S. Bronson, Mgr.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VERNON INS. AND TRUST CO., Indianapolis d & t. 1851.	1893	150,000	213,111	25,704	37,427	51,202	14,447	65,649	27,556	12,000	17,921	57,477
M. V. McGilliard, Pres., Chas. E. Dark, Sec.	1892	150,000	204,939	24,304	30,635	32,604	35,056	67,666	11,621	12,000	10,490	34,181
1891	1891	150,000	171,561	10,319	5,242	35,457	8,576	44,033	17,839	12,000	11,059	41,498
1890	1890	150,000	169,080	13,181	5,845	32,043	100,000	132,043	3,498	4,000	9,687	17,185
1889	1889	150,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WASHINGTON, Hammond.....	1893	100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ernest W. Sohli, Pres., Jas. K. Helmhold, Sec.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
IOWA, c	1893	100,000	110,561	60,257	25,304	72,556	7,914	80,470	41,242	.....	31,985	73,227
CAPITAL, Des Moines.....1884.	1892	100,000	110,966	59,130	26,836	75,035	3,726	78,781	33,106	.....	31,096	64,202
S. T. Berry, Pres., J. K. Gilcrest, Sec., C. E. Campbell, Asst. Sec.	1891	100,000	99,546	51,786	22,700	67,129	2,331	69,460	26,795	.....	33,995	60,700
1890	1890	100,000	87,888	45,116	17,772	53,569	6,047	60,210	27,529	.....	25,007	52,536
1889	1889	100,000	81,171	44,941	11,230	65,958	18,257	84,215	35,270	13,950	24,415	73,635

a Seventy-five per cent stockholders' notes. † Statement for eighteen months ending Dec. 31, 1891. § March 1, 1894. a Formerly the Indiana Insurance Company. b The Indiana of Indianapolis and the Vernon Insurance and the Vernon Insurance and Trust do a combined business under the style of the Indiana Underwriters. c Assets include notes for premiums. d New capital included.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS	Year of Organization	Cash Capital	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disbursements.
IOWA c—Continued.												
COUNCIL BLUFFS, Council Bluffs.....1881.	1893	* 100,000	\$101,442	\$53,764	\$22,678	\$66,863	\$4,002	\$70,865	\$20,246	\$8,000	\$29,152	\$57,398
A. T. Flickinger, Pres., J. Q. Anderson, Sec.	1894	* 100,000	97,760	47,802	20,877	53,148	1,988	55,136	20,265	.....	25,913	46,179
	1891	* 100,000	81,390	45,113	15,113	35,820	37,946	37,946	20,638	.....	18,875	34,943
	1890	* 100,000	85,025	45,605	14,420	28,146	1,002	20,148	12,785	.....	25,764	31,660
	1889	* 100,000	84,830	55,564	4,272	40,939	.....	40,939	21,058	.....	25,764	46,822
DES MOINES, Des Moines.....1881.	1893	* 100,000	319,369	244,931	59,338	233,190	8,539	241,720	139,659	2,500	108,559	250,718
J. G. Rounds, Pres., J. S. Clark, Sec.	1894	* 100,000	281,343	201,642	54,793	214,153	7,869	222,022	73,338	.....	96,803	170,231
	1891	* 100,000	219,299	148,397	45,924	126,544	4,483	131,027	49,344	.....	73,920	123,224
	1890	* 100,000	148,744	100,873	22,871	70,739	6,091	82,830	37,293	.....	45,777	69,423
	1889	* 100,000	121,028	82,742	13,286	67,924	3,657	71,581	37,293	2,500	41,545	81,338
DUBUQUE FIRE AND MARINE, Dubuque.....1883.	1893	100,000	301,631	64,374	137,257	85,282	17,966	103,248	39,258	10,000	22,510	71,868
Thos. Connolly, Pres., N. J. Schrup, Sec.	1894	100,000	282,571	56,457	126,114	70,746	12,154	82,900	34,176	10,000	22,368	66,546
	1891	100,000	262,423	48,742	113,681	58,592	10,319	68,911	24,766	.....	23,124	47,890
	1890	100,000	158,254	45,095	88,159	54,821	9,799	64,620	25,985	.....	18,803	44,788
	1889	100,000	141,290	49,148	67,148	58,343	15,387	83,730	24,260	8,000	15,026	47,286
FARMERS, Cedar Rapids.....1860.	1893	100,000	516,643	338,145	78,498	269,947	21,132	291,079	112,800	18,000	148,074	278,874
J. H. Smith, Pres., John B. Henderson, Sec.	1894	100,000	505,539	321,500	84,039	230,519	19,291	251,810	91,764	10,000	112,593	214,397
	1891	100,000	483,714	308,666	75,048	220,974	14,363	235,337	87,362	15,595	104,427	207,314
	1890	100,000	471,408	293,127	78,281	209,580	17,986	227,569	87,211	24,475	106,204	217,890
	1889	100,000	463,885	283,402	80,483	225,086	17,547	242,633	81,070	15,000	120,570	216,640
FIDELITY, Des Moines†.....1893.	1893	* 100,000	148,659	58,660	64,999	43,315	279	43,594	17,389	.....	22,725	40,114
John Cooper, Pres., C. A. Moore, Sec.												
HAWKEYE, Des Moines.....1865.	1893	* 100,000	605,575	358,053	222,522	244,207	25,120	269,327	97,883	30,000	145,631	273,514
A. Howell, Pres., W. D. Skinner, Sec.	1894	* 100,000	583,122	359,489	205,633	267,620	25,459	293,079	102,962	30,000	130,182	263,144
	1891	* 100,000	565,669	345,701	194,028	233,758	21,406	255,164	83,346	30,000	120,335	233,681
	1890	* 100,000	540,530	324,343	183,187	238,123	23,810	261,933	92,387	25,000	119,114	238,501
	1889	* 100,000	533,504	317,598	190,966	218,873	22,821	241,694	93,353	30,000	127,376	250,729
HAWKEYE, Sioux City.....1894.	1894	* 100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
W. C. Hutchins, Mgr.												
IOWA, Des Moines.....1892.	1893	26,500	47,886	18,685	2,701	39,798	1,272	41,070	14,285	.....	17,004	32,189
Frank Campbell, Pres., Jas. N. Miller, Sec.	1894	26,500	30,676	4,065	111	7,004	241	7,245	651	.....	5,048	5,699

* Seventy-five per cent stockholders' notes. † Organized in 1897 as a mutual company; reorganized in 1893. ‡ Authorized. c Assets include notes for premiums.

Name	Year	Capital	Assets	Liabilities	Surplus	Total	Paid up	Unpaid	Total	Organized to succeed the
KAY CITY, Dubuque,.....1891. Chris. A. Voelker, Pres., D. H. McCarthy, Sec.	1893 1894 1891	\$300,000 \$300,000 \$300,000	64,191 57,729 50,134	7,440 4,158 615	6,751 3,571 —481	13,293 8,167 1,173	4,901 2,810 246	18,194 10,977 1,419	3,944 171	8,090 6,105 1,738
MERCHANTS CONSOLIDATED, Des Moines,.....1894. William Phillips, Pres., Simon Casady, Mgr.	1894	50,000	.....	.....	.....	.....	.....	.....	.....	.....
MERCHANTS AND MANUFACTURERS, Clinton,.....1891. L. B. Wadleigh, Pres., D. L. Ryder, Sec.	1893 1894 1891	\$100,000 \$100,000 \$100,000	50,296 55,933 64,394	23,359 29,220 25,223	1,737 1,713 12,171	34,737 30,315 11,029	1,197 1,044 25,000	35,934 31,359 36,029	20,527 11,222 1,169	15,779 14,637 6,673
SECURITY, Davenport,.....1883. S. F. Gilman, Pres., E. J. Babcock, Sec.	1893 1894 1891 1890 1889	\$100,000 \$100,000 \$100,000 \$100,000 \$100,000	168,982 163,059 149,501 121,860 110,845	82,744 76,947 76,204 66,473 62,837	61,112 61,112 48,297 30,387 23,008	76,386 91,458 90,196 86,266 75,916	9,616 9,103 8,593 6,286 6,168	86,202 90,591 98,759 92,555 82,084	40,586 36,618 39,792 39,916 29,435	35,556 37,331 34,647 34,759 33,142
STATE, Des Moines,.....1865. O. B. Ayres, Pres., W. M. Black, Sec.	1893 1894 1891 1890 1889	\$200,000 \$200,000 \$200,000 \$200,000 \$200,000	467,078 542,707 534,565 512,025 487,197	260,697 326,511 313,266 282,652 274,659	6,161 6,106 21,299 29,993 12,538	396,537 474,705 391,235 341,492 300,287	24,079 502,880 28,595 24,468 22,447	275,107 15,000 419,890 365,900 382,734	275,107 15,000 194,328 171,378 200,156	196,360 12,930 176,890 170,936 186,712
UNDERWRITERS FIRE, Sioux City,.....1894. E. F. Philbrook, Pres., Chas. Williams, Mgr.	1894	100,000	.....	.....	.....	.....	.....	.....	.....	.....
SHAWNEE, Topeka,.....1882. H. P. Dillon, Pres., J. W. Going, Sec.	1893 1894 1891 1890 1889	\$100,000 \$100,000 \$100,000 \$100,000 \$100,000	217,975 150,173 79,004 75,545 48,298	61,804 8,478 10,978 13,688 19,845	56,171 41,695 61,026 61,857 28,453	69,391 16,619 19,841 19,372 24,818	194 18,686 21,875 8,647 4,857	69,495 35,395 41,716 28,019 29,675	30,430 24,102 19,171 11,449 8,758	33,394 7,666 19,611 15,068 15,209
COLUMBIAN, Louisville,.....1892. E. L. Butler, Pres., Harry B. Bush, Sec., S. H. Sullivan, Gen. Mgr.	1893 1894 1891 1890 1889	\$200,000 \$200,000 \$200,000 \$200,000 \$200,000	693,215 248,183	395,222	7,992 48,183	870,088	14,114	884,202	310,347	454,195
FRANKLIN, Louisville,.....1836. Geo. W. Morris, Pres., John J. Barret, Sec.	1893 1894 1891 1890 1889	\$200,000 \$200,000 \$200,000 \$200,000 \$200,000	240,068 277,820 266,040 229,842 292,767	37,502 76,138 64,099 28,902 29,882	2,566 1,682 2,395 35,913 62,885	69,387 114,820 86,111 35,913 39,207	13,460 12,306 11,976 11,943 15,409	82,847 127,126 98,087 47,856 54,616	87,192 66,182 31,324 17,367 21,045	29,235 40,618 33,886 16,368 16,917
GERMAN, Louisville,.....1854. J. J. Fischer, Pres., N. H. Rehkopf, Sec.	1893 1894 1891 1890 1889	\$200,000 \$200,000 \$200,000 \$200,000 \$200,000	334,795 331,370 313,044 365,105 293,292	23,734 22,207 24,645 22,119 19,692	111,061 109,073 88,392 82,988 73,600	18,591 19,408 17,896 19,051 19,498	15,840 21,078 17,593 17,652 12,471	34,431 40,486 35,489 36,793 31,969	10,160 5,948 10,266 5,715 9,769	9,698 8,574 8,005 7,220 8,290

† Par value; market value stated to be \$220,668.
 ‡ Seventy-five per cent stockholders' notes.
 § Formerly the Kansas Farmers (Mutual); reorganized in 1893.
 ¶ \$50,000 paid up.
 * Assigned in 1894.
 † Organized to succeed the
 ‡ Impairment.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended Jan. 1	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
KENTUCKY—Continued.												
GERMAN NATIONAL, Louisville.....1884.	1893	\$200,000	\$322,795	\$14,282	\$18,513	\$7,361	\$9,096	\$16,397	\$5,167	\$12,000	\$9,222	\$26,389
Adolph Reutlinger, Pres., Chas. T. Dearing, Sec.	1892	200,000	243,007	19,113	23,804	12,767	15,070	28,457	2,293	12,537	9,532	24,362
	1891	200,000	239,835	18,589	21,246	12,646	12,604	26,340	3,615	11,619	8,623	23,857
	1890	200,000	236,585	16,317	20,268	13,095	15,684	28,700	5,746	11,247	8,621	25,614
	1889	200,000	234,633	14,520	20,113	12,846	12,632	25,478	6,781	12,573	9,204	28,558
GERMAN SECURITY, Louisville.....1872.	1893	100,000	166,643	14,051	52,592	12,238	3,302	15,540	4,745	22,000	4,544	31,289
Jas. S. Barret, Pres., C. W. Kompfe, Sec.	1892	100,000	182,481	14,320	38,152	13,224	3,386	16,604	7,933	.....	4,194	12,127
	1891	100,000	178,493	13,837	59,866	12,886	3,175	16,061	8,162	.....	4,347	12,509
	1890	100,000	174,696	13,847	60,849	13,122	3,045	16,187	5,467	.....	4,813	10,280
	1889	100,000	168,690	11,861	56,829	12,263	3,353	15,616	7,564	.....	4,855	12,419
LOUISVILLE, Louisville.....1872.	1893	100,000	257,561	131,773	25,788	210,580	15,165	225,745	181,464	4,745	65,972	232,181
Theodore Harris, Pres., M. A. Huston, Sec.	1892	100,000	295,753	157,069	38,684	261,890	15,989	277,879	167,286	5,000	86,782	253,068
	1891	100,000	273,959	155,368	18,571	221,786	15,439	237,228	159,950	16,000	62,666	229,616
	1890	100,000	247,278	124,414	22,864	154,153	14,162	168,315	108,272	16,640	14,093	139,005
	1889	100,000	284,586	96,919	88,567	123,993	18,586	142,579	92,421	15,360	13,567	121,348
WESTERN, Louisville.....1872.	1893	100,000	206,203	18,680	87,523	13,322	10,698	24,090	12,958	8,000	5,795	26,683
A. F. Coldewey, Pres., B. Frese, Sec.	1892	100,000	211,266	16,081	95,185	13,977	10,228	24,205	3,633	8,000	6,355	17,988
	1891	100,000	202,856	19,115	83,741	14,049	10,424	24,473	6,551	8,000	5,639	20,190
	1890	100,000	201,950	15,064	85,986	13,247	10,616	23,893	3,575	8,000	5,213	19,788
	1889	100,000	195,022	14,688	86,334	13,597	11,468	24,975	5,684	8,000	5,361	19,045
LOUISIANA.												
CRESCENT, New Orleans.....1849.	1893	240,000	394,800	105,714	40,914	261,648	12,937	274,585	92,384	.....	89,091	181,475
W. R. Lyman, Pres., John E. Whiting, Sec.	1892	300,000	276,770	64,985	88,215	149,130	8,552	157,682	115,062	.....	55,955	171,017
	1891	300,000	390,421	73,955	73,534	213,625	7,921	221,546	90,830	.....	60,431	151,261
	1890	300,000	310,674	70,836	60,162	164,166	6,592	170,670	61,188	.....	55,825	117,013
	1889	300,000	275,003	75,500	100,497	167,316	5,684	173,000	68,759	.....	56,216	124,975
FIREMENS, New Orleans.....1875.	1893	.....	96,145	a 17,861	.....	40,060	.....	40,060	6,738	.....	b 18,198	24,936
Otto Thoman, Pres., _____ Sec.	1892	.....	68,414	.....	.....	38,766	.....	38,766	42,968	.....	16,023	58,991
	1891	.....	61,616	.....	107,533	62,643	.....	62,643	25,401	.....	33,827	59,227
	1890	150,000	283,458	25,925	107,533	66,770	.....	66,770	20,546	.....	19,070	39,616
	1889	150,000	279,999	20,932	108,997	86,007	23,597	109,604	33,354	.....	32,722	66,076

* Company bought and retired \$60,000 of stock.

† Does not report to insurance department.
— Impairment.

a Unearned premiums.

b Includes return premiums and reinsurance.

GERMANIA, New Orleans. J. Hassinger, Pres., Otto T. Maier, Sec.	1893	200,000	261,071	67,618	-6,547	168,245	8,058	176,403	113,676	.....	51,832	165,508
	1894	200,000	266,911	65,706	1,205	137,841	26,084	163,925	153,124	.....	49,317	202,441
	1891	200,000	292,087	67,993	23,184	134,889	27,264	162,153	98,621	10,000	50,448	159,069
	1890	200,000	261,395	66,132	25,263	133,991	26,223	159,314	96,855	20,000	112,205	220,126
	1889	200,000	282,820	71,284	11,536	133,991	26,223	159,314	96,855	20,000	37,380	154,335
HIBERNIA, New Orleans. Wm. H. Byrnes, Pres., John J. Fitzpatrick, Sec.	1893	200,000	234,335	22,972	11,363	60,291	11,018	71,309	13,102	.....	17,600	30,722
	1892	200,000	176,420	23,053	-46,633	42,387	18,228	60,614	12,973	4	17,915	109,992
	1891	200,000	225,896	43,176	-17,280	75,109	12,651	87,760	51,693	60	25,844	77,597
	1890	200,000	265,551	54,790	10,761	117,658	11,170	128,828	147,536	.....	106,360	253,916
	1889	200,000	403,610	154,948	-151,338	348,724	13,006	361,730	248,140	.....	122,497	370,637
HOME, New Orleans. Thos. Seltion, Pres., John G. Byrd, Sec.	1893	400,000	508,270	209,938	-101,668	415,764	19,636	435,400	289,459	.....	114,408	403,867
	1892	400,000	530,624	151,740	-21,098	320,520	13,223	333,742	356,666	.....	115,584	472,190
	1891	400,000	600,415	171,968	28,447	248,517	25,593	274,040	127,130	16,000	55,713	198,843
	1890	400,000	551,898	135,231	16,667	306,606	24,559	331,165	135,344	15,000	113,083	263,427
	1889	369,000	510,585	108,315	33,270	303,949	23,249	327,198	112,731	14,552	137,018	264,301
INTER-STATE FIRE ASS'N, New Orleans &c. Breedlove Smith, Pres., R. L. Emery, Sec.	1893	104,450	25,216	29,176	-3,960	54,729	64	54,793	20,262	.....	16,640	37,002
	1892	186,786	6,650	19,912	-13,262	32,669	318	32,987	35,862	.....	12,702	48,624
	1891	187,400	21,977	16,657	5,320	29,416	743	30,159	7,973	.....	10,810	18,783
	1890	173,050	10,555	11,258	-703	27,095	1,420	28,515	8,758	(#)	10,739	19,497
	1889	120,500	7,725	.....	7,725	8,478	1,632	10,110	679	(#)	4,793	5,382
LAFAYETTE, New Orleans &c. Louis Mathis, Pres., G. Gaisser, Sec.	1893	150,000	266,559	81,559	35,000	67,345	12,273	79,618	12,105	.....	11,384	23,489
	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	150,000	244,707	84,240	10,467	35,125	8,517	43,643	12,700	.....	10,466	23,286
	1890	150,000	229,304	39,304	40,000	35,270	13,297	48,567	6,811	.....	10,879	17,690
	1889	150,000	213,477	33,477	30,000	57,276	14,114	71,390	23,586	.....	9,652	33,238
LOUISIANA, Baton Rouge. R. H. Burke, Pres., T. J. Bird, Sec.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1892	185,000	92,311	2,913	4,198	8,392	3,134	11,526	2,079	.....	2,370	8,647
	1891	185,000	86,015	2,539	476	2,971	1,420	4,391	500	.....	2,448	4,145
MECHANICS AND TRADERS, New Orleans. Lloyd R. Coleman, Pres., Geo. H. Frost, Sec.	1893	375,000	800,969	361,845	73,124	460,724	30,333	491,057	302,856	18,750	156,621	478,227
	1892	375,000	780,039	317,459	87,580	423,832	29,336	453,168	326,591	18,750	148,137	493,478
	1891	375,000	772,495	313,628	83,867	429,411	38,885	468,296	267,549	37,500	144,166	449,209
	1890	375,000	786,216	207,628	207,628	300,681	39,470	340,160	163,956	37,500	111,277	272,727
	1889	375,000	742,624	164,550	203,074	257,083	33,632	291,315	138,095	37,500	80,472	256,067
MERCHANTS, New Orleans &c. Paul Capdeville, Pres., Jules Montreuil, Sec.	1893	300,000	370,117	72,740	-2,623	132,661	16,637	149,298	40,559	19,500	37,453	97,512
	1892	600,000	334,077	48,557	.....	104,073	15,264	119,433	48,680	.....	27,099	75,779
	1891	600,000	300,758	49,186	.....	80,768	11,260	92,032	61,208	.....	29,963	91,171
	1890	.....	.....	.....	.....	85,800	.....	.....	.....	.....	14,436	77,778
	1889	.....	432,914	.....	.....	100,737	.....	.....	27,342	.....	.....	.....

* Statement for year ending May 31. † Began business January 1, 1891; capital subscribed, February 27, \$85,000; paid up, \$37,000 in cash; \$68,000 in notes.
 May 31, 1892. ‡ Unearned premiums. § Guarantee fund notes. || Nine months ending February 28, 1893. ¶ Subscribed; paid up, \$28,237.
 report to insurance department. § Stock subscriptions and guarantee fund notes. * Statement for ten months. † Includes dividend declared \$22,500.
 * Credited on stock notes, 1889, \$653; 1890, \$3517. ‡ Paid up, \$6170; subscribed, \$188,280. — Impairment.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year Ending Dec. 31.	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
LOUISIANA—Continued.												
NEW ORLEANS INS. ASS'N, New Orleans,.....1869.	1893	\$300,000	\$363,658	\$57,119	\$6,539	\$160,317	\$9,458	\$169,775	\$76,245	\$48	\$62,171	\$138,416
Geo. Lanau, Pres., Chas. D. Delery, Sec.	1892	300,000	343,367	66,357	22,990	161,170	7,557	168,727	133,789	8,706	59,590	193,955
	1891	300,000	369,860	90,128	20,278	182,611	13,373	195,984	147,733	8,706	74,838	231,277
	1890	300,000	415,970	96,875	10,104	241,581	12,240	253,821	75,832	17,407	98,101	191,340
	1889	300,000	405,918	91,994	14,014	257,743	15,041	272,784	90,685	8,286	72,788	171,753
SOUTHERN, New Orleans,.....1882												
Ernest Milltenberger, Pres., Scott McGehee, Sec.	1893	300,000	509,348	183,134	26,214	444,339	6,632	450,971	244,342	.....	149,845	394,187
	1892	300,000	514,156	199,891	14,265	426,491	21,399	447,890	297,385	23,796	140,257	401,418
	1891	300,000	545,096	184,295	60,831	429,513	22,783	452,296	239,983	25,192	148,824	413,999
	1890	300,000	559,348	177,245	82,103	405,469	19,211	424,680	196,062	23,552	130,268	349,882
	1889	300,000	501,851	149,672	52,179	387,811	28,906	416,717	217,594	24,624	110,794	353,012
SUN MUTUAL, New Orleans,.....1856.												
Chas. Janvier, Pres., Fergus G. Lee, Sec.	1893	500,000	994,870	314,598	180,272	477,252	44,024	521,276	297,397	49,840	150,186	427,333
	1892	500,000	943,176	322,094	121,082	501,866	41,383	543,252	402,331	49,840	156,818	608,089
	1891	500,000	986,643	342,102	144,451	593,448	51,835	555,283	349,842	49,840	167,188	566,870
	1890	500,000	1,061,927	316,713	245,214	497,932	51,000	548,932	309,810	66,950	162,650	538,510
	1889	498,400	1,072,207	321,224	1252,643	339,257	45,602	384,859	258,052	51,947	64,268	374,267
TEUTONIA, New Orleans,.....1872.												
Albert P. Noll, Pres., Geo. Meyer, Sec.	1893	250,000	494,235	158,648	85,587	333,153	15,904	349,057	203,767	12,500	102,074	318,341
	1892	250,000	474,954	166,037	58,917	286,747	10,471	393,218	208,342	.....	99,933	366,275
	1891	250,000	461,613	180,838	90,775	237,599	23,440	261,039	123,587	12,500	77,812	213,869
	1890	250,000	450,666	101,524	99,142	181,374	19,660	201,034	79,729	12,500	61,317	153,546
	1889	250,000	440,085	95,666	24,479	164,940	20,123	185,063	89,444	12,500	49,911	151,855
MAINE.												
MERCHANTS, Bangor (Marine),.....1865.	1893	100,000	218,001	95,975	22,026	99,739	6,159	105,898	80,293	8,000	16,317	104,610
Edward B. Nealley, Pres., Wm. B. Snow, Sec.	1892	100,000	214,403	77,953	36,540	82,006	4,981	87,977	64,565	4,000	81,724	81,724
	1891	100,000	208,147	88,132	20,015	83,616	6,159	89,795	55,202	8,000	12,735	75,927
	1890	100,000	194,635	68,498	26,137	75,450	3,093	78,543	55,152	8,000	11,402	74,554
	1889	100,000	183,369	65,532	17,537	68,104	2,773	70,877	40,416	4,000	10,451	60,867
UNION, Bangor (Marine),.....1862												
A. F. Stetson, Pres., E. S. Burr, Sec.	1893	100,000	314,820	115,746	99,074	117,223	10,826	128,054	107,915	10,000	15,922	133,837
	1892	100,000	320,225	108,265	112,560	116,253	11,515	127,768	100,019	16,000	17,086	133,105
	1891	100,000	327,200	119,804	107,396	122,880	10,977	133,857	81,395	20,000	16,723	118,118
	1890	100,000	311,801	113,809	97,992	121,425	10,214	131,639	84,411	16,000	18,019	118,430
	1889	100,000	302,211	115,471	86,740	141,437	10,278	151,715	90,718	16,000	2,327	109,045

† Includes outstanding scrip.

— Impairment.

MARYLAND.		1893	1892	1891	1890	1889	1893	1892	1891	1890	1889	1893	1892	1891	1890	1889	1893	1892	1891	1890	1889	1893	1892	1891	1890	1889	1893	1892	1891	1890	1889
AMERICAN, Baltimore.		1858																													
A. R. Cathcart, Pres., C. K. Abrahams, Sec.																															
ASSOCIATED FIREMENS, Baltimore.		1847																													
John C. Boyd, Pres., Wm. Smart, Sec.																															
BALTIMORE, Baltimore.		1807																													
W. C. Pennington, Pres., M. K. Burch, Sec.																															
FIREMENS, Baltimore.		1845																													
Frank E. S. Wolfe, Pres., H. L. Riall, Sec.																															
GERMAN, Baltimore.		1865																													
Alex. H. Schulz, Pres., Chas. H. Koppelman, Sec.																															
GERMAN-AMERICAN, Baltimore.		1880																													
Martin Meyerdireck, Pres., Herman Knollenberg, Sec.																															
HOME, Baltimore.		1867																													
G. H. Williams, Pres., Howard T. Williams, Sec.																															
HOWARD, Baltimore.		1856																													
Wm. Ortwine, Pres., J. H. Katzenberger, Sec.																															

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Incorporated in	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disbursements.
MARYLAND—Continued.												
MARYLAND, Baltimore.	1893	\$100,000	\$154,687	\$34,597	\$18,100	\$50,167	\$7,195	\$57,962	\$33,240	\$5,981	\$17,790	\$57,011
Wm. R. Barry, Pres., John M. Beck, Sec.	1892	100,000	155,541	22,302	33,239	26,794	7,049	33,843	9,934	5,976	12,530	28,440
	1891	100,000	147,597	12,043	35,554	26,794	8,415	24,804	10,221	5,976	12,036	28,240
	1890	100,000	150,745	13,850	36,895	16,461	7,309	23,770	2,601	6,011	11,436	20,048
	1889	100,000	147,855	11,250	36,605	16,487	7,584	24,071	12,534	6,007	9,197	27,738
NATIONAL, Baltimore.	1893	100,000	163,685	23,593	40,182	25,953	6,600	32,553	16,850	6,086	11,383	34,319
W. C. Jenness, Pres., Geo. E. Taylor, Sec.	1892	100,000	167,229	25,286	41,943	21,072	6,579	33,356	13,138	5,828	12,094	31,066
	1891	100,000	164,404	16,441	48,023	21,072	6,185	27,277	5,201	6,089	9,124	20,354
	1890	100,000	157,704	13,716	43,988	20,360	6,025	26,385	5,492	4,914	8,651	19,057
	1889	100,000	150,725	12,244	38,481	19,862	5,701	25,563	9,522	4,241	8,349	22,112
Old Town, Baltimore.	1893	100,000	134,424	8,152	26,272	9,111	6,759	15,870	3,167	5,500	5,511	14,178
Charles W. Hatter, Pres., James M. Warwick, Sec.	1892	100,000	132,060	7,644	24,416	9,183	6,810	15,093	1,234	5,500	5,153	11,887
	1891	100,000	127,840	7,283	20,557	7,968	7,163	15,131	3,470	4,500	5,236	13,812
	1890	100,000	126,016	8,734	18,182	7,562	6,143	13,705	2,104	4,500	5,180	11,784
	1889	100,000	124,856	6,816	18,040	7,777	7,882	15,659	1,593	4,300	4,969	10,812
PEABODY, Baltimore.	1893	127,500	486,976	37,300	321,475	30,160	24,424	54,584	17,792	13,346	16,045	47,183
Thos. I. Carey, Pres., R. B. Post, Sec.	1892	127,500	489,269	33,445	324,324	26,966	22,718	49,684	5,861	13,270	15,000	34,671
	1891	127,500	475,150	30,884	316,766	27,721	22,226	49,947	18,341	13,264	16,027	47,632
	1890	127,500	473,379	31,532	314,347	27,419	24,612	52,021	7,029	13,403	13,599	34,031
	1889	127,500	456,649	31,231	297,918	27,732	24,605	52,337	11,192	13,477	13,833	38,502
MASSACHUSETTS.												
AMERICAN, Boston.	1893	300,000	568,520	204,541	26,021	337,433	23,935	361,368	246,453	8,997	137,046	392,406
Francis Peabody, Pres., J. W. Field, Sec.	1892	300,000	617,611	284,437	33,174	347,257	24,521	371,778	207,204	302	150,471	357,977
	1891	300,000	596,964	260,777	36,187	283,823	24,178	308,001	179,993	7,513	118,951	306,367
	1890	300,000	582,834	214,720	68,108	261,704	23,674	285,438	107,759	8,793	101,747	278,209
	1889	300,000	591,188	209,419	81,769	257,975	23,677	281,652	215,569	9,036	102,668	397,213
BOSTON MARINE, Boston.	1893	1,000,000	1,297,764	677,268	1,114,496	1,053,875	101,475	1,155,350	747,739	100,000	148,995	1,196,734
R. B. Fuller, Pres., T. H. Lord, Sec.	1892	1,000,000	1,368,957	677,735	1,390,322	1,137,672	95,739	1,233,413	722,200	100,000	157,973	980,173
	1891	1,000,000	1,201,419	666,795	1,222,654	1,060,152	89,222	1,149,374	691,748	100,000	162,939	954,687
	1890	1,000,000	1,266,461	614,538	1,051,923	1,020,436	79,822	1,100,258	690,168	100,000	152,887	943,055
	1889	1,000,000	1,244,025	585,268	857,819	1,159,366	79,534	1,237,894	993,399	100,000	175,545	1,178,944

† Includes premium notes.

— Impairment.

BOYLSTON, Boston &.....1872. Frank E. Sweetser, Pres., Washington Glover, Sec.	1893 1892 1891 1890 1889	537,200 537,200 537,200 537,200 537,200	883,090 959,986 915,809 944,094 906,139	311,435 311,300 275,958 260,080 243,607	14,454 91,426 82,651 106,805 105,322	336,142 322,222 313,078 293,421 275,998	36,981 36,956 36,242 35,974 35,202	373,193 359,098 349,320 390,395 311,200	255,107 186,422 201,816 180,451 220,766	121,811 117,472 193,704 116,209 108,355	399,681 320,688 349,370 343,453 364,261
DWELLING HOUSE, Boston.....1872. C. K. Nichols, Pres., H. F. Perkins, Sec., H. A. Gordon, Asst. Sec.	1893 1892 1891 1890 1889	300,000 300,000 300,000 300,000 300,000	473,277 486,066 511,556 560,056 587,759	151,681 150,241 181,497 223,674 250,339	21,596 20,853 30,072 36,382 37,420	186,469 195,508 154,677 188,253 224,940	15,183 18,125 18,458 18,368 18,613	201,652 181,257 173,135 206,561 243,553	102,401 95,691 89,379 107,580 100,947	89,551 205,724 79,931 90,545 107,695	191,952 205,724 187,310 216,125 226,563
EQUITABLE MARINE, Provincetown.....1845. Lyander N. Paine, Pres., Lewis Nickerson, Sec.	1893 1892 1891 1890 1889	50,000 50,000 50,000 50,000 50,000	107,151 115,466 133,886 125,817 125,071	33,839 27,843 49,533 37,580 39,301	23,312 37,043 34,293 38,297 35,770	30,270 30,474 40,580 37,008 36,326	3,988 3,952 4,132 4,263 4,036	34,258 34,426 44,712 31,271 40,362	21,516 18,001 31,442 27,774 27,264	4,996 5,474 5,202 4,908 4,668	20,012 28,475 36,644 33,222 34,432
FIREMENS, Boston.....1872. T. W. Tucker, Pres., Henry C. Short, Sec.	1893 1892 1891 1890 1889	400,000 400,000 400,000 400,000 400,000	820,809 857,056 841,732 854,582 841,362	130,642 133,731 130,336 122,285 127,329	290,167 323,325 311,396 332,297 334,023	120,242 109,152 103,214 113,979 104,179	39,676 37,263 38,490 35,821 43,973	168,918 156,415 141,705 153,821 148,152	89,840 56,496 63,394 47,974 136,136	49,450 48,086 45,587 131,704 43,589	167,243 144,523 149,136 131,704 210,015
FIRST NATIONAL, Worcester.....1868. Chas. B. Pratt, Pres., Geo. A. Park, Sec.	1893 1892 1891 1890 1889	200,000 200,000 200,000 200,000 200,000	335,868 327,555 295,780 288,021 276,022	138,761 122,165 92,276 97,938 66,461	—2,953 15,390 3,594 20,083 3,541	161,558 136,632 114,698 86,644 79,706	16,494 16,472 16,951 14,400 17,066	278,052 153,106 130,749 101,104 96,712	116,416 82,549 67,236 56,992 82,108	56,076 44,810 39,472 36,516 27,766	180,492 127,359 122,708 87,568 125,934
MERCANTILE FIRE AND MARINE, Boston.....1823. Geo. R. Rogers, Pres., Jas. Simpson, Sec.	1893 1892 1891 1890 1889	400,000 400,000 400,000 400,000 400,000	588,762 645,566 638,838 641,629 672,817	179,368 173,791 140,013 126,471 124,701	9,394 71,775 98,825 115,158 148,116	208,408 218,194 170,522 136,523 153,037	26,691 27,481 208,966 28,474 28,313	235,099 245,675 208,966 165,397 181,950	159,366 109,067 99,979 89,508 94,526	90,292 92,732 69,664 55,927 63,450	248,898 233,869 974,201 177,465 189,934
NORTH AMERICAN, Boston.....1872. Silas Peirce, Pres., Eugene E. Patridge, Vice- Pres., Chas. E. Macular, Sec.	1893 1892 1891 1890 1889	200,000 200,000 200,000 200,000 200,000	361,124 354,999 359,816 358,364 354,429	150,693 137,022 152,858 142,920 153,319	10,431 17,887 6,958 15,444 1,110	171,912 140,939 137,933 154,815 163,115	14,686 15,541 15,560 15,899 16,780	186,598 153,488 153,496 170,714 179,895	101,980 75,281 117,347 97,419 147,391	60,166 59,217 55,721 63,951 61,732	162,146 139,498 173,068 167,370 221,187
SPRINGFIELD F. AND M., Springfield.....1849. A. J. Wright, Pres., S. J. Hall, Sec.	1893 1892 1891 1890 1889	1,500,000 1,500,000 1,500,000 1,500,000 1,500,000	3,595,495 3,751,504 3,631,969 3,604,147 3,410,983	1,613,919 1,666,794 1,530,669 1,448,797 1,390,473							

‡ Includes outstanding scrip. a Includes payments to scripholders. b Reinsured in German-American, New York, in 1894. — Impairment.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other than Losses and Dividends	Total Disburse- ments.
MASSACHUSETTS—Continued.												
WELLFLEET MARINE, Wellfleet t.....1864. Thomas Kemp, Pres., Chas. A. Collins, Sec.	1893	\$100,000	\$137,267	\$44,616	—\$7,349	\$46,341	\$5,105	\$51,446	\$37,787	\$5,000	\$7,062	\$49,849
	1892	100,000	161,759	50,933	11,726	49,082	4,937	54,019	44,497	6,000	7,657	58,054
	1891	100,000	157,425	42,749	14,460	55,199	4,797	59,056	42,665	6,000	8,893	57,558
	1890	100,000	161,164	43,648	17,516	58,270	5,598	63,868	47,281	6,000	9,379	62,666
	1889	100,000	161,101	48,796	12,395	57,494	4,820	62,314	58,190	6,000	9,500	73,690
MICHIGAN.												
DETROIT FIRE AND MARINE, Detroit.....1866. Wm. A. Moore, Pres., C. L. Andrews, Sec.	1893	400,000	1,153,248	216,719	536,529	274,022	66,206	334,238	207,566	40,000	96,803	344,369
	1892	400,000	1,140,778	190,517	559,261	255,085	66,400	321,491	135,232	40,000	88,341	253,573
	1891	400,000	1,054,386	148,110	506,276	201,070	62,970	264,049	123,220	41,000	79,355	243,575
	1890	350,000	1,036,721	147,118	539,603	222,798	58,386	281,184	107,951	35,000	77,959	220,860
	1889	350,000	971,310	151,783	469,527	216,465	62,475	278,940	120,065	35,000	74,315	229,386
GRAND RAPIDS, Grand Rapids.....1882. John W. Champin, Pres., W. Fred McBain, Sec.	1893	200,000	346,377	125,505	20,812	168,301	21,739	190,040	129,976	12,000	68,673	210,649
	1892	200,000	359,521	116,715	42,806	168,685	22,270	190,955	94,559	12,000	67,361	173,911
	1891	200,000	338,482	93,062	44,519	132,014	18,071	159,085	81,238	12,000	52,444	145,682
	1890	200,000	327,364	76,788	50,576	121,100	18,233	139,333	68,664	12,000	42,593	123,247
	1889	200,000	310,119	73,759	36,360	114,684	10,944	131,628	71,465	12,000	36,461	121,966
MICHIGAN FIRE AND MARINE, Detroit.....1881. D. Whitney, Jr., Pres., Frank H. Whitney, Sec.	1893	400,000	778,333	352,005	26,328	457,841	41,021	498,862	391,102	16,000	161,439	568,541
	1892	400,000	856,993	356,806	100,007	545,181	48,581	593,762	410,613	32,000	197,037	690,640
	1891	400,000	879,318	348,866	139,452	541,800	48,645	590,445	340,594	32,000	189,738	562,332
	1890	400,000	822,891	275,975	146,916	473,699	45,892	519,590	244,293	32,000	179,885	447,388
	1889	400,000	735,115	231,590	103,525	368,214	40,281	434,495	202,650	32,000	135,431	397,081
SAGINAW VALLEY FIRE & MARINE, Saginaw 1893. Walter S. Eddy, Pres., J. P. Sheridan, Sec.	1893	100,000	136,924	29,479	7,445	43,554	1,543	45,097	10,158	.....	13,133	23,291
MINNESOTA.												
MINNESOTA, Minneapolis.....1886. John De Laitre, Pres., J. C. Moody, Sec.	1893	200,000	280,312	72,950	7,562	50,096	122,083	172,119	106,718	.....	48,711	155,429
	1892	200,000	311,179	98,025	13,154	170,817	23,044	193,861	194,186	.....	90,371	284,559
	1891	200,000	393,554	106,868	23,656	244,359	26,014	270,373	173,779	15,000	99,902	288,681
	1890	250,000	391,498	129,232	12,266	192,318	21,464	213,782	97,371	7,900	76,174	181,045
	1889	250,000	354,037	96,855	7,182	141,899	17,748	159,647	65,202	.....	55,952	121,154
MISSISSIPPI VALLEY, Minneapolis.....1894. W. T. Goodhue, Mgr.	1894	100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Business of 1893; statement of condition as of January 27, 1893. Formerly the Syndicate.
† Reorganized and commenced business as a stock company February 1, 1886;
— Impairment.
retired from business in 1894.

* Began business May 15, 1889. *a* Company does a small local business, which is all reinsured. *b* Includes subscribed capital and notes for premiums. *c* Fifty per cent stockholders' secured notes. *d* Seventy-five per cent stock notes.

* Began business May 15, 1889.

Small local business, which is all reinsured.

b Includes subscribers to all reinsured.
A Seventy-five per cent stock notes.

Includes subscribed capital and notes for premiums.

Fifty per cent

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended Jan. 1	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
NEW HAMPSHIRE.												
CAPITAL, Concord.....1885.	1893	\$200,000	\$456,214	\$247,065	\$9,149	\$270,966	\$35,977	\$306,843	\$185,023	\$12,000	\$110,543	\$377,566
L. Jackman, Pres. and Sec., C. L. Jackman, Asst. Sec.	1892	200,000	344,257	121,271	22,986	126,621	109,851	142,775	41,027	10,365	52,832	104,224
	1891	200,000	272,119	50,552	11,597	38,944	109,891	148,832	17,963	6,000	16,117	40,080
	1890	100,000	160,799	48,416	12,383	47,706	8,905	50,239	33,546	6,000	12,608	52,154
	1889	100,000	159,648	44,840	14,868	47,706	† 58,100	† 105,812	30,256	5,500	14,855	50,611
FIRE UNDERWRITERS ASS'N, Concord.....1886.	1893	10,000	55,243	41,779	3,463	52,657	1,765	54,422	32,238	300	20,685	53,223
L. Jackman, Pres., Thos. M. Lang, Sec.	1892	10,000	49,918	29,985	9,933	39,769	2,154	41,923	22,110	600	11,408	34,118
	1891	10,000	49,196	27,035	12,161	25,373	1,903	27,276	13,834	600	8,838	23,272
	1890	10,000	41,717	26,238	5,479	28,783	1,879	30,662	23,814	600	7,569	31,983
	1889	10,000	43,482	29,209	4,273	33,899	1,938	35,837	22,413	900	9,267	32,580
GRANITE STATE, Portsmouth †.....1885.	1893	200,000	577,178	332,574	44,604	561,043	20,353	581,396	380,897	12,000	176,786	559,683
Frank Jones, Pres., A. F. Howard, Sec.	1892	200,000	564,188	320,936	43,252	599,721	23,451	533,172	377,866	12,000	161,140	550,946
	1891	200,000	547,866	305,935	41,951	410,856	23,426	434,282	214,494	12,000	131,351	357,845
	1890	200,000	459,452	234,133	25,319	208,048	19,371	317,419	197,056	12,000	107,643	316,699
	1889	200,000	456,673	231,727	24,946	266,361	16,646	283,007	163,749	.....	78,011	241,760
NEW HAMPSHIRE, Manchester.....1869.	1893	800,000	2,162,564	927,914	434,650	922,993	95,942	1,088,865	637,470	56,000	332,943	1,026,413
J. A. Weston, Pres., John C. French, Vice- Pres. and Sec.	1892	700,000	1,925,821	856,153	429,668	886,182	96,301	982,483	523,502	56,000	297,732	877,234
	1891	700,000	1,899,991	739,079	400,882	769,516	86,356	856,352	499,214	48,000	279,213	756,427
	1890	600,000	1,659,158	699,019	360,139	763,577	77,313	840,890	421,970	48,000	265,767	735,737
	1889	600,000	1,588,817	665,337	323,480	731,396	72,566	803,962	441,851	48,000	248,567	738,418
PORTSMOUTH FIRE ASS'N, Portsmouth.....1887.	1893	50,000	134,332	25,370	58,962	39,702	6,079	45,781	26,101	.....	9,787	35,888
Frank Jones, Pres., A. F. Howard, Sec.	1892	50,000	127,511	30,775	46,736	19,499	6,123	25,532	8,185	.....	3,923	12,108
	1891	50,000	103,797	17,288	36,599	18,738	5,227	23,965	5,448	.....	4,189	9,637
	1890	50,000	87,223	13,864	23,359	19,225	5,644	24,869	11,411	.....	3,652	15,063
	1889	50,000	78,778	11,037	17,741	13,976	4,069	18,045	6,073	.....	2,827	8,900
STATE DWELLING HOUSE, Concord &.....1885.	1893	15,000	38,413	4,741	18,672	2,225	1,729	3,954	327	1,800	1,086	3,213
F. A. McKean, Pres., Obadiah Morrill, Sec.	1892	15,000	38,000	4,296	16,765	2,593	2,041	4,504	1,085	1,800	1,040	3,951
	1891	15,000	37,430	5,809	16,621	3,350	1,736	5,022	149	.....	1,504	1,653
	1890	.....	33,918	15,437	15,358	3,858	1,122	4,980	4,460	.....	2,061	6,521
	1889	.....	20,389	10,508	6,881	10,643	1,066	11,709	1,723	.....	3,119	4,842

† Includes increase of capital, \$20,000 in 1889, and \$100,000 in 1891.
previous to 1891 are those of that company.

‡ Statement according to Illinois standard.

§ Formerly State Mutual Insurance Company; statements
includes dividends to policyholders.

¶ Including guarantee fund, \$15,000.

⌘ Formerly State Mutual Insurance Company; statements
includes dividends to policyholders.

NEW JERSEY.									
AMERICAN, Newark......1846.									
1893	Fred. H. Harris, Pres., J. H. Worden, Sec.	600,000	2,342,939	572,720	1,170,219	573,176	103,108	676,284	333,786
1892		600,000	2,297,475	555,430	1,142,045	538,854	102,417	641,271	261,912
1891	P. L. Hoadley, Sec. Agency Dept.	600,000	2,182,421	473,597	1,108,824	464,089	91,356	555,445	246,667
1890		600,000	2,115,889	447,309	1,068,580	447,995	68,739	544,664	212,558
1889		600,000	2,048,584	433,731	1,014,853	426,548	87,700	514,368	216,226
CAMDEN FIRE INSURANCE Ass'n, Camden ...1841.									
1893	H. B. Wilson, Pres., Joseph K. Sharp, Sec.	105,730	257,051	45,080	106,241	9,122	13,725	22,847	7,405
1892		105,730	256,209	44,013	106,556	8,660	14,419	23,079	920
1891		105,730	249,615	43,601	100,194	8,184	13,937	22,121	1,341
1890		105,730	250,182	44,267	100,185	8,839	14,156	22,995	3,932
1889		105,730	246,149	42,977	97,442	7,694	13,826	21,580	.....
FIREMENS, Newark......1855.									
1893	John H. Kase, Pres., D. H. Dunham, Vice-Pres., Charles Colyer, Sec.	600,000	1,875,062	362,726	912,337	389,317	99,040	488,357	315,267
1892		600,000	1,917,703	368,804	948,868	375,933	102,378	478,311	243,554
1891		600,000	1,848,167	278,204	969,953	285,300	95,825	381,125	175,781
1890		600,000	1,795,444	236,161	952,283	260,457	96,372	356,827	183,168
1889		600,000	1,720,158	233,673	886,485	222,545	94,541	377,086	254,654
MERCHANTS, Newark......1858.									
1893	G. Lee Stout, Pres., J. R. Mullikin, Sec.	400,000	1,299,760	796,269	103,491	854,186	57,824	912,010	770,427
1892		400,000	1,546,547	941,179	295,368	960,850	61,309	1,022,159	700,786
1891		400,000	1,508,307	871,142	297,165	891,261	67,394	958,655	623,962
1890		400,000	1,602,949	743,731	457,218	832,428	68,600	901,118	517,244
1889		400,000	1,554,658	677,561	477,097	809,025	65,222	874,247	493,353
MOUNT HOLLY, Mount Holly......1831.									
1893	Amos Gibbs, Pres., Harris Cox, Sec.	100,000	168,593	61,814	6,779	5,785	9,082	14,867	7,175
1892		100,000	171,250	58,009	13,221	11,773	8,279	20,052	15,937
1891		100,000	180,526	65,619	14,997	15,515	8,774	24,286	14,717
1890		100,000	180,954	61,627	19,397	14,723	8,604	23,327	11,272
1889		100,000	181,690	66,515	15,115	16,314	10,773	27,087	12,388
NATIONAL FIRE AND MARINE, Elizabeth......1865.									
1893	Amos Clark, Pres., E. N. Marsh, Sec.	100,000	139,236	9,781	29,455	11,044	7,250	18,294	7,787
1892		100,000	140,709	9,936	31,073	9,151	8,367	17,458	1,825
1891		100,000	137,934	8,742	29,192	10,584	9,327	19,911	15,161
1890		100,000	148,082	9,695	38,387	13,016	11,180	24,196	8,665
1889		100,000	150,150	10,012	40,138	10,781	8,238	19,019	6,824
NEWARK, Newark......1810.									
1893	John J. Henry, Pres., Joseph Ward, Jr., Treas., Frank T. McBride, Sec.	250,000	625,297	179,291	196,005	184,272	30,451	214,723	143,302
1892		250,000	657,028	178,510	228,488	197,312	30,055	237,887	155,626
1891		250,000	702,426	201,380	248,046	207,780	31,107	234,367	138,708
1890		250,000	718,136	171,874	266,262	200,232	39,520	236,758	136,092
1889		250,000	730,040	193,135	286,995	203,872	39,054	235,986	124,475
NEW BRUNSWICK, New Brunswick......1826.									
1893	Jas. H. Van Cleef, Pres., Fred. Weigel, Sec.	50,000	131,885	5,327	76,198	3,550	6,953	10,593	1,429
1892		50,000	131,868	3,784	78,084	3,800	7,694	11,500	2,707
1891		50,000	134,282	3,113	82,246	3,656	7,892	11,548	1,188
1890		50,000	135,712	3,466	82,246	3,826	7,818	11,644	1,725
1889		50,000	137,841	3,803	84,038	4,623	7,879	12,502	767

† Includes payments to scripholders.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year of Incorporation	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disbursements.
NEW JERSEY—Continued.												
STANDARD, Trenton......1868.	1893	\$100,000	\$166,935	\$38,768	\$8,167	\$29,645	\$9,212	\$38,857	\$12,607	\$6,000	\$17,338	\$35,945
Wm. Dolton, Pres., Wm. C. Lawrence, Sec.	1892	100,000	167,390	37,242	30,078	25,030	9,093	34,933	18,777	3,000	10,744	32,521
	1891	100,000	167,390	37,242	30,078	25,030	9,093	34,933	18,777	3,000	10,744	32,521
	1890	100,000	167,390	37,242	30,078	25,030	9,093	34,933	18,777	3,000	10,744	32,521
	1889	100,000	167,390	37,242	30,078	25,030	9,093	34,933	18,777	3,000	10,744	32,521
NEW YORK.												
AGRICULTURAL, Watertown......1853.	1893	500,000	2,312,676	1,551,476	261,200	965,011	109,696	1,074,707	592,622	49,950	414,479	1,057,051
J. R. Stebbins, Pres., H. M. Stevens, Sec.	1892	500,000	2,369,622	1,523,533	365,796	1,012,910	110,276	1,123,186	571,718	50,015	471,820	1,043,553
	1891	500,000	2,262,018	1,380,334	381,684	782,089	107,809	889,898	452,864	37,370	377,200	877,200
	1890	500,000	2,226,599	1,373,748	352,851	836,337	107,847	944,184	465,721	50,015	372,738	888,474
	1889	500,000	2,168,804	1,331,385	337,419	813,276	100,381	913,657	377,075	49,990	373,799	800,864
ALBANY, Albany......1811.	1893	250,000	428,065	116,381	61,484	134,823	23,793	158,616	102,581	20,000	48,382	170,963
J. Howard King, Pres., Richard De Witt, Sec.	1892	250,000	441,085	88,006	103,979	107,568	23,405	130,973	57,319	20,000	39,469	116,788
	1891	250,000	434,571	72,621	111,950	84,911	23,533	108,444	56,972	20,000	34,127	111,999
	1890	250,000	420,831	69,751	110,080	82,305	21,793	104,014	50,623	20,000	27,948	98,571
	1889	250,000	428,437	67,797	110,730	77,297	23,902	100,595	45,438	20,000	25,345	90,763
AMERICAN, New York......1857.	1893	400,000	1,512,570	973,752	138,818	1,461,076	56,170	1,517,246	1,100,240	42,093	531,736	1,674,069
David Adee, Pres., W. H. Crollius, Sec.	1892	400,000	1,697,506	1,088,927	208,579	1,522,043	62,276	1,584,319	1,070,393	40,099	506,502	1,616,994
	1891	400,000	1,685,082	1,042,915	*242,107	1,284,740	55,664	1,340,364	636,416	40,000	454,735	1,131,151
	1890	400,000	1,365,463	558,930	*406,533	756,790	47,122	803,852	377,790	40,250	309,791	727,831
	1889	400,000	1,300,842	476,672	*424,170	585,938	52,715	638,653	379,211	41,359	264,551	685,121
BROADWAY, New York......1849.	1893	200,000	442,252	189,070	53,222	264,724	15,397	280,121	176,044	20,000	100,198	246,242
E. B. Magnus, Pres., G. W. Jones, Sec.	1892	200,000	471,722	147,747	123,975	204,965	15,475	219,840	127,526	20,000	72,800	220,416
	1891	200,000	458,489	107,497	159,992	157,705	20,951	178,650	117,833	22,000	69,584	209,417
	1890	200,000	428,042	62,892	215,150	103,498	21,240	124,738	35,267	22,000	49,444	106,691
	1889	200,000	458,813	45,210	213,663	57,555	19,986	77,541	18,667	20,000	33,471	72,078
BUFFALO GERMAN, Buffalo......1867.	1893	200,000	1,631,386	425,837	1,005,549	456,220	77,051	533,271	259,144	40,000	162,982	462,126
Philip Becker, Pres., O. J. Eggert, Sec.	1892	200,000	1,547,220	369,202	978,023	415,599	72,451	487,960	282,974	40,000	151,831	400,805
	1891	200,000	1,454,032	341,561	912,471	376,539	60,387	445,926	275,201	40,000	140,174	455,375
	1890	200,000	1,472,196	382,385	889,811	430,098	65,141	495,239	307,332	40,000	155,282	402,614
	1889	200,000	1,374,766	350,463	824,303	398,026	62,663	460,689	244,204	40,000	137,004	421,208

* Includes outstanding scrip.

a Includes payments to scrip-holders.

c Capital increased to \$350,000 by stock dividend.

CITIZENS, New York		1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250	3251	3252	3253
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STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year begun to do business	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other than Losses and Dividends	Total Disburse- ments.
NEW YORK—Continued.												
GERMAN-AMERICAN, New York.....1872.	1893	1,000,000	5,997,403	3,341,568	1,655,835	3,080,626	\$245,399	3,265,955	1,921,277	\$200,000	1,097,983	3,219,260
E. Oelbermann, Pres., John W. Murray, Vice Pres., James A. Silvey, and Vice-Pres. and Sec.	1892	1,000,000	6,202,395	2,945,486	2,256,915	2,884,035	240,709	3,124,744	1,664,359	200,000	1,058,564	2,922,923
	1891	1,000,000	5,879,208	2,623,819	2,255,389	2,635,721	223,230	2,858,960	1,573,795	200,000	960,563	2,734,358
	1890	1,000,000	5,599,894	2,303,335	2,294,559	2,388,213	231,128	2,619,341	1,391,446	200,000	804,795	2,396,241
	1889	1,000,000	5,544,347	2,292,156	2,254,191	2,430,362	210,114	2,640,476	1,466,058	200,000	896,054	2,522,112
GERMANIA, New York.....1859.	1893	1,000,000	3,206,984	1,246,651	960,333	1,089,100	117,891	1,206,991	622,205	100,000	430,597	1,152,802
Hugo Schumann, Pres., Chas. Ruykhafer, Sec.	1892	1,000,000	3,195,171	1,183,522	1,011,649	1,006,650	108,156	1,114,866	608,953	100,000	385,271	1,094,224
	1891	1,000,000	3,171,526	1,257,566	913,960	1,188,451	115,014	1,303,465	690,956	100,000	436,259	1,186,215
	1890	1,000,000	3,066,615	1,187,401	879,214	1,143,334	118,187	1,261,521	605,312	100,000	424,242	1,129,554
	1889	1,000,000	2,965,137	1,207,073	758,064	1,187,373	110,683	1,298,056	607,863	100,000	440,827	1,148,690
GLENS FALLS, Glens Falls.....1850.	1893	200,000	2,249,553	777,545	1,272,008	657,355	116,760	774,115	374,282	40,000	257,658	671,940
J. L. Cunningham, Pres., R. A. Little, Sec.	1892	200,000	2,155,373	735,984	1,210,389	641,337	114,010	755,347	313,461	20,000	252,343	585,804
	1891	200,000	1,980,713	671,130	1,109,574	516,054	98,752	644,806	299,143	20,000	231,207	550,440
	1890	200,000	1,894,542	635,782	1,058,760	556,593	93,311	640,814	259,914	20,000	218,201	498,115
	1889	200,000	1,791,770	588,721	1,003,049	513,446	84,904	598,350	257,035	20,000	196,562	473,597
GLOBE, New York.....1863.	1893	200,000	257,105	52,090	5,075	33,511	12,797	46,238	34,436	12,000	27,460	73,896
E. C. Jameson, Pres., Wm. Valentine, Sec.	1892	200,000	299,079	82,014	17,065	74,917	17,468	92,385	50,672	16,000	35,868	108,540
	1891	200,000	307,025	70,382	30,643	79,381	7,438	86,819	74,568	16,000	30,944	125,512
	1890	200,000	341,037	60,362	80,675	74,381	15,688	90,069	99,531	16,000	35,262	90,793
	1889	200,000	343,366	54,021	89,345	67,384	13,870	81,254	37,257	20,000	35,282	92,539
GREENWICH, New York.....1834.	1893	200,000	1,357,361	1,039,786	117,575	1,216,690	58,699	1,275,389	910,126	20,000	417,056	1,347,182
Mason A. Stone, Pres., _____, Sec., W.	1892	200,000	1,486,152	1,165,095	121,057	1,223,561	73,098	1,296,659	934,911	20,000	457,977	1,412,888
W. B. Ward and Wm. Adams, Asst. Secs.	1891	200,000	1,597,375	1,284,943	112,432	1,186,153	70,043	1,256,196	828,398	20,000	467,097	1,315,495
	1890	200,000	1,537,035	960,200	390,829	983,552	61,012	1,044,564	561,922	20,000	371,077	932,979
	1889	200,000	1,439,797	864,984	374,813	944,414	62,079	1,006,493	622,551	20,000	352,456	995,009
HAMILTON, New York.....1852.	1893	150,000	250,003	67,606	39,397	89,535	9,200	98,744	57,480	9,000	29,647	96,127
D. D. Whitney, Pres., D. D. Leeds, Sec.	1892	150,000	247,730	69,328	82,021	82,021	7,924	89,945	49,638	.....	29,079	78,717
	1891	150,000	242,016	66,760	25,247	74,278	7,444	81,722	61,439	4,541	30,788	96,768
	1890	150,000	257,522	52,491	55,029	67,755	11,124	78,879	41,144	9,177	30,388	86,700
	1889	150,000	262,182	54,868	57,374	66,166	9,450	75,622	55,593	9,127	31,057	95,747

Reinsured, 1890, in the Liverpool and London and Globe and resumed business.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year begun business	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other Than Losses and Dividends	Total Disburse- ments.
NEW YORK—Continued.												
NORTH RIVER, New York. ....1822.	1893	\$350,000	\$536,459	\$170,393	\$16,136	\$239,612	\$16,705	\$56,317	\$147,292	\$19,844	\$73,180	\$249,316
Wm. E. Hutchins, Pres., Fred H. Crum, Sec.	1892	350,000	521,500	160,456	11,044	235,941	16,265	252,206	121,631	20,256	73,573	215,460
	1891	350,000	481,806	118,785	13,021	170,715	16,032	186,747	130,397	20,758	62,793	203,858
	1890	350,000	501,859	106,793	45,136	156,426	18,880	171,716	85,387	21,614	58,449	165,450
	1889	350,000	484,474	92,050	42,424	137,889	18,880	156,769	76,099	20,562	53,854	150,535
PACIFIC, New York. ....1851.	1893	200,000	796,234	338,222	198,012	379,066	25,617	404,686	251,567	20,000	139,468	410,975
Frank T. Stinson, Pres., George Jeremiah, Sec.	1892	200,000	747,301	290,855	247,446	318,838	23,975	342,813	158,135	20,000	114,340	292,475
	1891	200,000	688,944	238,798	250,126	254,912	23,972	278,887	186,060	22,000	99,396	307,465
	1890	200,000	719,076	223,976	295,100	250,570	23,570	273,666	139,818	24,000	96,520	260,338
	1889	200,000	714,852	209,761	305,091	237,801	23,756	261,557	169,042	24,000	90,481	283,593
PETER COOPER, New York. ....1853.	1893	150,000	318,865	20,576	148,289	15,879	11,482	27,361	4,871	15,000	14,494	34,365
W. H. Kibbel, Pres., Mortimer J. Ennis, Sec.	1892	150,000	324,100	17,684	156,416	17,077	12,436	29,513	6,769	15,000	12,529	34,268
	1891	150,000	337,356	20,223	167,103	21,801	7,983	29,784	20,433	16,500	14,708	51,641
	1890	150,000	305,544	22,601	192,983	25,951	15,361	41,312	7,773	18,000	14,728	40,501
	1889	150,000	379,119	19,537	209,582	23,528	13,428	36,956	2,600	18,000	14,043	34,704
PHENIX, Brooklyn. ....1853.	1893	1,000,000	5,993,963	4,742,526	161,437	4,728,071	179,400	4,907,471	2,990,813	100,000	1,717,942	4,808,755
Geo. P. Sheldon, Pres., C. C. Little, Vice- Pres. and Sec.	1892	1,000,000	5,794,597	4,250,852	543,745	4,242,703	181,203	4,423,906	2,499,840	100,000	1,651,022	4,250,932
	1891	1,000,000	5,187,267	3,676,546	510,721	3,773,085	195,186	3,968,271	2,287,421	100,000	1,483,448	3,876,866
	1890	1,000,000	5,028,315	3,444,611	653,704	3,519,700	184,988	3,704,688	1,912,711	100,000	1,371,135	3,383,896
	1889	1,000,000	4,761,256	3,379,335	401,921	3,415,737	149,049	3,565,386	1,928,851	60,000	1,461,306	3,570,157
QUEEN OF AMERICA, New York. ....1891.	1893	500,000	3,645,938	2,116,159	1,029,779	2,173,399	115,948	2,289,277	1,449,625	.....	713,433	2,163,058
J. A. Macdonald, Pres., G. W. Burchell, Sec.	1892	500,000	3,538,916	2,037,283	1,021,633	2,046,155	256,225	2,302,380	1,337,278	.....	685,255	2,022,533
	1891	500,000	3,181,753	1,656,596	1,025,157	1,662,129	26,120	1,688,249	96,183	.....	122,105	218,288
ROCHESTER GERMAN, Rochester. ....1872.	1893	200,000	905,899	500,726	205,173	590,240	50,010	570,250	378,086	20,000	206,955	604,141
Frederick Cook, Pres., H. F. Atwood, Sec.	1892	200,000	963,137	521,368	220,829	570,673	43,008	616,781	320,396	20,000	295,828	572,224
	1891	200,000	894,534	413,669	280,865	437,677	43,533	477,211	220,245	20,000	172,007	412,252
	1890	200,000	815,395	376,557	238,838	438,713	37,449	476,162	223,047	16,000	168,211	410,258
	1889	200,000	751,385	332,864	218,521	389,961	37,487	427,448	225,400	20,000	148,654	394,054
RUTGERS, New York. ....1853.	1893	200,000	348,370	79,951	68,419	97,827	15,308	113,135	80,431	20,000	41,796	122,227
Ed. B. Fellows, Pres., H. C. Kreiser, Sec.	1892	200,000	375,622	66,765	108,167	88,671	15,349	104,020	54,694	20,000	40,842	115,536
	1891	200,000	366,357	66,266	100,101	76,605	12,275	92,880	56,613	20,500	37,129	114,242
	1890	200,000	385,553	58,595	127,128	74,831	16,330	91,161	47,280	19,500	35,961	102,741
	1889	200,000	406,830	67,137	139,693	76,018	16,878	94,866	58,765	20,000	37,603	116,368

STUYVESANT, New York.....1890. Geo. B. Rhoads, Pres., C. A. Garthwaite, Sec.	1893 1894 1891 1890 1889	275,364 289,016 290,000 200,000 200,000	57,284 63,691 42,140 284,053 300,434	18,078 25,325 48,005 49,097 55,745	74,286 70,784 61,316 51,326 55,045	10,864 12,753 19,072 14,040 12,304	85,150 83,477 74,388 65,366 67,409	37,661 47,757 40,651 35,082 25,366	12,000 12,000 12,000 13,000 14,000	27,011 26,091 26,577 26,564 26,738	76,672 85,848 79,228 74,646 66,104
UNION, Buffalo.....1874. George Sandrock, Pres., A. Martin, Sec.	1893 1892 1891 1890 1889	191,884 192,742 186,433 182,326 171,301	43,734 41,248 41,609 36,967 37,037	48,150 51,494 44,824 45,359 34,264	32,273 32,704 32,268 32,991 32,740	9,613 10,825 9,530 10,371 8,409	41,886 43,589 41,798 42,662 41,149	22,695 16,538 16,884 9,982 16,359	6,000 6,000 6,000 6,000 6,000	14,712 14,393 13,966 13,730 13,637	43,337 36,921 36,870 29,712 35,996
UNITED STATES, New York.....1824. W. W. Underhill, Pres., W. H. Griffen, Sec.	1893 1892 1891 1890 1889	651,024 685,807 671,284 651,020 651,404	300,331 284,895 207,816 150,831 153,205	100,693 159,012 213,468 250,179 246,139	350,160 312,485 220,251 192,777 186,164	28,354 26,231 28,953 32,543 31,086	378,514 338,716 249,204 225,320 217,270	228,669 161,270 158,822 100,331 104,220	25,000 25,013 25,000 27,674 29,994	156,427 136,009 88,945 88,046 91,740	410,096 322,301 272,837 216,051 225,954
WESTCHESTER, New York.....1837. Geo. R. Crawford, Pres., J. Q. Underhill, Sec., John H. Kelly, Asst. Sec.	1893 1892 1891 1890 1889	1,821,550 1,733,397 1,066,577 1,085,991 1,640,089	1,104,079 1,066,730 421,788 879,427 815,249	327,471 426,730 421,803 460,662 406,458	1,339,131 1,106,633 1,053,116 959,381 870,669	59,434 59,859 59,373 54,455 58,526	1,398,565 1,105,492 1,112,486 1,013,836 999,155	787,749 615,557 658,494 459,989 471,943	30,000 30,000 30,000 30,000 30,000	498,440 456,315 438,422 406,659 346,149	1,316,189 1,101,872 1,076,866 896,628 848,022
WILLIAMSBURG CITY, Brooklyn.....1853. Marshall S. Driggs, Pres., F. H. Way, Sec.	1893 1892 1891 1890 1889	1,477,258 1,496,334 1,597,173 1,450,855 1,393,312	629,868 553,222 664,697 520,393 497,290	597,390 693,112 412,476 680,462 646,016	562,292 556,390 589,014 534,729 534,071	50,111 60,983 58,597 62,135 56,652	612,403 616,703 629,511 594,864 590,923	367,232 326,607 378,482 284,597 265,218	49,920 50,100 49,980 49,950 50,115	240,799 234,944 240,942 237,931 230,397	657,951 611,651 669,494 559,476 571,660
CAROLINA, Wilmington *.....1889. G. W. Williams, Pres., M. S. Willard, Sec.	1893 1892 1891 1890 1889	65,040 62,056 57,058 53,308 33,011	6,773 5,588 2,944 2,512 590	8,267 6,468 4,114 796 1,151	12,018 10,005 5,735 3,372 1,266	3,535 3,334 2,986 2,319 474	15,553 13,399 8,721 5,691 1,740	6,000 3,061 2,537 1,213	2,898 1,469	3,886 2,976 1,861 541 249	12,784 8,046 4,473 4,880 249
NORTH CAROLINA HOME, Raleigh.....1868. W. S. Primrose, Pres., Chas. Root, Sec. and Treas.	1893 1892 1891	..... 152,345 145,501	..... 34,104 27,096	...............	...............	...............	...............	...............	...............	...............	...............
PAMLICO INS. AND BANKING CO., Tarboro..... H. L. Staton, Pres., T. P. Cheshire, Sec.	1893 1892	33,960	149,076	35,018.....	..........	..........	..........	..........	..........	..........	..........

* Began business October 1, 1880. † By mutual agreement and contract the Germania-American Insurance Company of New York is jointly liable with the North Carolina Home under policies issued by the latter. ‡ February 1, 1891.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ending Dec. 31	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other than Losses and Dividends	Total Disburse- ments.
OHIO.												
CINCINNATI, Cincinnati.....1829.	1893	\$150,000	\$38,698	\$69,161	\$19,537	\$77,856	\$11,319	\$89,175	\$59,555	\$13,843	\$27,806	\$101,204
R. T. Bonsall, Pres., L. L. Townley, Sec.	1892	150,000	252,090	74,478	27,612	103,590	10,613	114,142	57,557	15,705	31,993	105,315
	1891	150,000	247,340	47,158	50,182	49,263	10,873	60,136	20,516	14,554	17,779	61,849
	1890	150,000	244,301	38,594	61,707	38,010	11,801	43,901	14,407	15,086	14,179	43,612
	1889	150,000	251,287	29,257	72,030	31,900	10,478	42,378	17,686	15,039	14,342	47,067
CINCINNATI UNDERWRITERS, Cincinnati.....1883.	1893	250,000	531,679	142,041	139,638	167,064	22,465	189,599	101,707	21,000	60,516	183,223
F. A. Rothier, Pres.; Adam Benus, Sec.	1892	250,000	526,212	133,859	142,353	203,499	26,171	229,670	154,346	21,000	65,356	240,702
	1891	250,000	547,287	151,037	146,250	108,065	21,640	219,695	114,604	21,000	67,610	203,254
	1890	250,000	511,803	121,772	140,931	148,537	21,543	170,130	80,497	21,000	46,686	157,183
	1889	250,000	488,834	107,138	131,696	133,063	25,624	158,687	84,322	21,000	43,692	149,014
COLUMBIA, Dayton.....1881.	1893	150,000	322,836	76,314	66,522	82,124	16,132	98,256	39,245	12,000	32,585	83,830
E. M. Thresher, Pres., O. I. Guinckel, Sec.	1892	150,000	313,757	73,887	89,870	79,383	15,741	95,124	37,379	12,000	33,514	82,893
	1891	150,000	293,645	68,128	75,317	75,031	16,527	91,558	33,394	12,000	29,862	75,250
	1890	150,000	277,959	66,092	74,376	74,376	15,811	90,187	30,274	12,000	33,712	75,986
	1889	150,000	264,344	62,192	59,152	74,615	13,746	88,361	38,080	12,000	32,127	82,207
COMMERCIAL, Cincinnati.....1837.	1893	100,000	203,175	49,518	53,657	39,795	9,092	48,857	33,448	6,000	12,994	52,442
J. A. Townley, Pres., E. E. Shipley, Sec.	1892	100,000	202,411	47,186	55,225	40,285	9,113	49,399	46,589	12,000	11,870	70,459
	1891	100,000	238,858	62,746	76,112	40,229	10,229	50,514	31,464	14,000	12,220	57,684
	1890	100,000	241,070	47,617	93,453	33,388	11,151	44,539	21,183	16,000	11,771	48,954
	1889	100,000	245,707	41,455	104,252	34,554	11,144	45,698	30,316	16,000	12,140	58,456
COOPER, Dayton.....1867.	1893	100,000	287,878	149,017	37,061	113,900	11,613	125,513	55,102	10,000	53,503	118,605
W. P. Callahan, Pres., Chas. W. Schenk, Sec.	1892	100,000	317,799	140,391	77,338	146,280	12,408	159,298	56,646	10,000	62,787	159,433
	1891	100,000	319,779	90,019	90,019	140,280	13,388	153,618	76,482	10,000	61,153	149,635
	1890	100,000	302,211	106,599	95,682	130,091	12,665	142,757	52,128	10,000	58,785	120,853
	1889	100,000	271,862	93,199	78,663	120,667	11,259	131,926	51,422	10,000	62,689	124,171
DATON, Dayton.....1851.	1893	100,000	185,080	75,857	9,223	106,800	8,814	115,614	61,343	6,000	38,770	106,113
S. E. Kemp, Pres., J. W. Weldner, Sec.	1892	100,000	168,393	53,316	15,007	79,539	8,400	87,939	37,036	6,000	29,666	72,612
	1891	100,000	147,792	39,751	8,041	52,836	7,592	60,428	21,185	.....	31,315	44,500
	1890	100,000	133,024	29,685	3,339	42,075	7,945	50,020	19,207	.....	22,319	41,526
	1889	100,000	122,410	22,101	399	48,865	7,792	56,657	23,776	3,000	27,986	54,756

§ Composed of Europa Fire and Marine and Security, Cincinnati.

PENNSYLVANIA.		1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	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STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year beginning Jan 1	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
PENNSYLVANIA—Continued.												
CITIZENS, Pittsburgh.....1849. J. R. Snively, Pres., Howard Welch, Sec.	1893	\$500,000	\$759,273	\$268,405	—\$9,132	\$399,965	\$36,774	\$346,739	\$244,050	\$20,000	\$66,454	\$360,504
	1892	500,000	792,066	273,447	18,619	310,137	36,754	346,861	218,345	10,000	101,543	399,887
	1891	500,000	772,181	271,915	266	393,257	36,701	340,018	207,701	20,000	107,541	335,242
	1890	500,000	754,072	204,336	49,736	255,012	38,097	293,109	151,801	20,000	97,566	269,367
	1889	500,000	728,574	208,394	20,180	270,331	31,834	302,165	179,457	.....	96,489	275,946
CITY, Pittsburgh.....1870. John C. Reilly, Pres., Alfred S. Bishop, Sec.	1893	100,000	133,622	20,716	12,906	17,070	6,693	24,663	6,549	.....	8,615	15,164
	1892	100,000	123,666	20,406	17,874	16,678	5,668	23,482	10,686	.....	7,012	17,698
	1891	100,000	117,060	20,099	—3,073	16,678	5,668	23,088	18,476	.....	8,356	17,698
	1890	100,000	117,600	27,068	—3,900	22,342	6,390	28,848	23,665	.....	10,869	24,534
	1889	100,000	124,485	34,312	—9,468	32,306	9,595	41,871	37,950	.....	14,094	52,044
THE DELAWARE, Philadelphia.....1835. Tattnall Paulding, Pres., H. Lylburn, Sec.	1893	702,875	1,495,727	698,636	94,216	838,396	65,545	993,941	616,481	257,016	330,608	1,013,105
	1892	702,875	1,664,038	679,122	282,041	850,737	63,638	933,375	508,621	257,016	324,411	828,677
	1891	702,875	1,530,917	453,065	380,979	615,595	53,230	668,825	394,418	127,736	234,084	666,258
	1890	702,875	1,338,983	338,983	462,528	444,452	59,714	504,166	207,541	26,769	145,023	379,333
	1889	360,000	1,452,694	* 101,395	79,129	421,469	59,372	480,841	282,284	26,769	114,665	473,615
FIRE ASSOCIATION, Philadelphia.....1817. E. C. Irvin, Pres., Theo. H. Conderman, Vice-Pres., B. T. Harkness, Sec.	1893	500,000	4,971,122	4,057,408	413,714	2,118,177	238,686	2,356,863	1,624,020	200,000	799,870	2,553,890
	1892	500,000	5,137,123	3,858,391	778,732	2,050,061	243,597	2,293,648	1,390,290	200,000	692,227	2,212,517
	1891	500,000	4,962,646	3,660,495	802,241	1,777,006	238,150	2,015,156	1,211,935	200,000	619,772	2,031,707
	1890	500,000	4,741,979	3,394,678	937,301	1,702,899	233,953	1,935,952	862,681	200,000	568,356	1,631,037
	1889	500,000	4,466,220	3,103,101	773,119	1,568,072	224,661	1,792,933	1,024,124	200,000	535,522	1,759,646
FIRE INS. CO. OF THE COUNTY OF PHILA., Phila. 1832. Charles R. Peck, Pres., E. A. Law, Sec.	1893	400,000	840,260	365,193	75,067	175,702	41,039	216,741	172,990	24,000	63,042	260,032
	1892	400,000	903,084	301,010	112,074	168,674	38,048	207,622	117,669	24,120	76,330	218,110
	1891	400,000	830,797	323,994	106,803	189,993	41,918	229,811	181,672	28,068	66,856	276,596
	1890	400,000	901,254	333,713	167,541	202,037	40,151	242,188	107,891	27,812	80,105	215,868
	1889	400,000	855,595	298,754	156,841	176,151	37,747	213,898	99,829	28,000	66,076	193,905
FRANKLIN, Philadelphia.....1829. Jas. W. McAllister, Pres., E. T. Cresson, Sec. Agency Dept.: R. H. Wass, Mgr., J. N. Dredger, Sec., S. K. Regier, Asst. Sec.	1893	400,000	3,130,589	1,776,858	953,731	597,318	149,931	657,249	322,903	80,188	247,181	650,272
	1892	400,000	3,198,599	1,803,914	994,615	515,570	151,757	663,267	269,351	89,792	241,335	600,478
	1891	400,000	3,173,477	1,814,907	958,570	486,645	141,255	627,900	312,497	90,210	236,886	630,393
	1890	400,000	3,213,230	1,828,019	985,211	479,920	151,497	631,327	247,547	99,600	220,070	556,217
	1889	400,000	3,174,357	1,804,333	970,024	463,520	143,896	607,416	311,352	100,142	226,464	637,958

* Includes outstanding scrip.

* Includes payments to scripsholders.

— Impairment.

GERMAN, Pittsburgh.....1862. H. E. White, Pres., F. L. Gross, Sec.	1893 1892 1891 1890 1889	200,000 200,000 200,000 200,000 200,000	514,916 514,137 509,002 501,790 467,730	264,917 253,067 237,055 211,601 187,281	49,999 61,070 71,947 90,180 80,449	975,405 802,175 236,377 221,105 203,014	29,280 28,799 24,191 22,493 21,062	298,625 290,904 260,568 243,598 224,076	177,317 170,346 154,576 127,817 126,200	20,000 20,000 20,000 20,000 16,000	100,583 92,811 258,684 78,833 73,659	297,900 283,157 258,684 226,660 215,859
GERMAN-AMERICAN, Pittsburgh.....1873. G. H. Meyer, Pres., W. J. Patterson, Sec.	1893 1892 1891 1890 1889	100,000 100,000 100,000 100,000 100,000	195,822 192,066 196,828 197,381 193,754	48,445 46,345 47,404 44,593 44,590	47,377 45,721 49,424 57,597 49,164	55,515 55,877 54,414 57,597 56,585	10,107 10,989 10,581 10,856 10,476	65,622 66,866 64,995 66,383 67,061	38,456 47,599 39,563 36,451 33,570	8,000 8,000 8,000 8,000 8,000	18,122 18,469 17,741 18,762 17,949	64,578 74,068 65,304 63,213 59,519
GIRARD FIRE AND MARINE, Philadelphia.....1853. A. S. Gillett, Pres., E. F. Merrill, Sec.	1893 1892 1891 1890 1889	300,000 300,000 300,000 300,000 300,000	1,656,569 1,636,454 1,574,836 1,531,645 1,424,969	800,673 826,378 796,772 716,735 625,665	45,896 49,076 47,606 514,910 499,304	476,452 459,454 424,424 449,760 374,265	75,397 69,260 68,671 66,648 65,367	551,849 528,714 493,095 516,408 439,632	262,887 219,525 198,690 161,447 216,667	60,000 60,000 72,000 72,000 72,000	201,366 188,800 195,058 178,068 156,478	524,253 468,395 466,160 411,515 445,145
HUMBOLDT, Allegheny City.....1871. John Seiling, Pres., A. H. Trimble, Sec.	1893 1892 1891 1890 1889	100,000 100,000 100,000 100,000 100,000	180,817 169,249 155,385 149,728 138,823	41,300 36,139 31,366 33,301 26,329	39,517 33,119 24,019 16,427 12,494	35,377 30,455 27,733 25,027 24,075	9,496 9,007 8,318 7,488 7,389	44,873 39,462 36,051 32,525 31,464	9,861 12,537 12,537 5,415 7,226	8,000 7,000 6,000 6,000 6,000	15,612 12,512 11,208 10,126 10,122	33,473 29,815 29,745 21,541 23,428
INS. CO. OF NORTH AMERICA, Philadelphia.....1794. Chas. Platt, Pres., Wm. A. Platt, Vice-Pres., Eugene L. Ellison, ad Vice-Pres., Greenville E. Fryer, Sec., J. H. Atwood, Asst. Sec., T. H. Wright, Mar. Sec.	1893 1892 1891 1890 1889	3,000,000 3,000,000 3,000,000 3,000,000 3,000,000	9,285,197 9,597,983 9,107,383 8,784,102 8,594,978	4,619,297 4,433,917 4,096,924 3,525,313 3,355,664	1,665,900 2,104,066 2,010,459 2,258,789 2,230,314	5,672,566 5,544,516 4,929,236 4,382,266 3,986,574	409,021 395,415 410,759 399,541 406,781	6,081,587 5,939,931 5,339,988 4,781,807 4,393,355	4,327,657 3,682,464 3,131,090 2,638,671 2,690,219	360,000 360,000 450,000 450,000 450,000	1,681,251 1,644,755 1,510,421 1,353,148 1,215,412	6,368,908 5,687,219 5,091,511 4,451,819 4,355,691
INS. CO. OF THE STATE OF PA., Phila. ....1794. G. G. Crowell, Pres., A. B. Earle, Sec.	1893 1892 1891 1890 1889	200,000 200,000 200,000 200,000 200,000	755,082 763,520 743,527 704,179 718,453	594,093 501,649 482,349 437,141 465,345	51,086 62,277 61,158 67,038 53,108	310,743 327,250 301,400 295,694 332,718	28,004 28,486 39,338 41,795 39,766	338,747 355,736 227,538 337,489 372,484	269,909 232,417 227,538 243,802 194,620	15,000 20,000 20,000 20,000 20,000	122,084 112,843 128,790 127,897 139,454	407,893 395,260 376,328 391,699 354,074
JEFFERSON, Philadelphia.....1855. W. McDaniel, Pres., P. E. Coleman, Sec.	1893 1892 1891 1890 1889	100,000 100,000 100,000 100,000 100,000	387,622 381,234 369,456 364,121 351,752	73,560 72,967 69,310 68,095 65,131	214,123 228,267 200,140 196,026 186,621	18,913 19,990 17,544 17,645 15,485	19,331 19,801 20,242 22,671 18,144	38,244 39,791 37,766 40,316 33,629	6,818 3,889 9,848 3,867 10,299	11,910 12,141 11,697 11,964 11,925	12,887 11,950 12,454 11,671 11,559	31,615 27,986 33,999 27,502 33,783
LUMBERMENS, Philadelphia.....1873. Lewis Davis, Pres., Oliver H. Hill, Sec.	1893 1892 1891 1890 1889	250,000 250,000 250,000 250,000 250,000	947,278 918,675 860,182 835,493 797,627	359,785 353,537 309,204 298,454 285,854	337,498 335,138 300,978 267,039 261,773	160,713 143,467 46,532 105,207 94,966	47,147 46,532 46,055 43,819 43,214	207,860 189,999 157,414 149,026 138,180	94,152 68,138 76,956 53,298 55,461	20,000 20,000 20,000 20,000 20,000	57,356 53,047 43,553 42,341 35,515	171,598 141,785 43,553 115,699 110,976

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year beginning Jan 1	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other than Losses and Dividends	Total Disburse- ments.
PENNSYLVANIA—Continued.												
MANUFACTURERS AND MERCHANTS—Pittsburgh. ....1865.												
C. W. Batchelor, Pres., Wm. T. Adair, Sec.	1863	\$250,000	\$437,739	\$146,875	\$40,864	\$171,019	\$19,523	\$190,542	\$38,843	\$15,000	\$60,039	\$173,882
	1862	250,000	415,472	117,841	47,631	141,364	17,668	158,972	64,232	15,000	51,007	130,239
	1861	250,000	381,844	89,902	41,942	94,791	17,031	111,822	80,365	7,500	36,814	124,680
	1860	250,000	383,302	69,203	64,099	88,342	13,614	101,956	30,038	15,000	30,634	84,672
	1859	250,000	370,245	67,996	52,249	75,772	16,400	92,172	44,681	15,000	28,390	88,071
MECHANICS, Philadelphia. ....1854.												
Simon J. Martin, Pres., John A. Snyder, Sec.	1863	250,000	760,323	410,202	100,031	234,827	33,833	268,670	163,032	20,000	92,920	276,044
	1862	250,000	741,194	364,656	126,538	214,372	33,592	247,964	140,118	20,100	80,191	240,409
	1861	250,000	719,474	348,502	120,913	177,177	35,374	213,291	140,866	19,987	64,809	225,622
	1860	250,000	717,036	368,828	160,868	154,995	33,616	188,541	79,997	19,953	60,392	153,342
	1859	250,000	664,323	268,461	145,862	136,978	45,113	182,091	95,476	20,162	43,825	159,463
MONONGAHELA, Pittsburgh. ....1854.												
W. A. Caldwell, Pres., J. H. Clancy, Sec.	1863	175,000	244,077	19,262	49,815	14,564	12,779	27,343	5,484	10,253	9,164	24,901
	1862	175,000	239,998	14,522	50,476	12,994	12,514	25,508	8,846	11,175	8,848	28,869
	1861	175,000	246,053	15,491	55,562	11,378	17,889	29,267	2,882	11,397	8,118	22,397
	1860	175,000	245,776	13,418	57,358	12,176	15,956	28,132	4,739	5,197	8,003	17,939
	1859	175,000	222,838	14,308	33,530	11,686	12,122	23,868	15,966	9,654	7,734	33,354
NATIONAL, Allegheny City. ....1866.												
H. M. Boyle, Pres., H. M. Schmitt, Sec.	1863	100,000	241,339	41,598	99,741	90,484	13,704	43,278	13,104	7,994	13,770	34,798
	1862	100,000	231,000	38,841	93,085	90,751	13,624	43,393	15,222	7,000	14,054	37,276
	1861	100,000	224,131	37,118	87,013	97,772	13,439	43,211	13,408	7,780	14,604	35,552
	1860	100,000	216,056	37,397	78,749	32,513	12,705	45,278	7,788	7,788	14,224	33,844
	1859	100,000	204,872	34,286	70,586	31,368	10,627	41,935	10,877	8,000	14,708	33,585
PENNSYLVANIA, Philadelphia. ....1865.												
R. Dale Benson, Pres., John L. Thomson, Vice-Pres., W. G. Crowell, Sec., Chas. W. Merrill, Asst. Sec.	1863	400,000	3,855,558	2,194,560	1,260,998	1,592,126	174,635	1,766,761	1,060,440	60,000	551,793	1,672,163
	1862	400,000	3,818,886	2,034,073	1,384,807	1,479,722	161,846	1,641,568	936,547	60,000	527,569	1,594,116
	1861	400,000	3,625,990	1,821,855	1,404,135	1,279,011	166,539	1,445,550	848,754	60,000	456,001	1,364,755
	1860	400,000	3,485,310	1,645,022	1,440,908	1,180,561	162,422	1,351,983	667,688	60,000	420,473	1,148,161
	1859	400,000	3,322,951	1,530,947	1,392,004	1,072,173	142,212	1,214,385	583,733	50,000	376,355	1,012,088
PEOPLES, Pittsburgh. ....1862.												
James Herdman, Pres., Wm. F. Gardner, Sec.	1863	150,000	212,659	41,919	20,740	50,706	11,436	62,142	39,487	8,000	16,721	64,208
	1862	150,000	214,375	45,272	19,148	52,693	10,594	63,287	36,236	.....	31,146	67,382
	1861	200,000	221,695	61,074	—39,379	69,844	14,817	84,661	17,586	.....	32,779	160,363
	1860	200,000	300,662	120,459	—19,797	128,648	16,568	175,216	136,861	.....	53,743	190,604
	1859	200,000	305,595	128,985	—23,390	181,858	17,583	199,441	145,828	6,000	64,393	216,131

— Impairment.

[illegible]

† Statements according to Pennsylvania standard.

* Formerly the German, which reinsured in 1802.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended 1900	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
PENNSYLVANIA—Continued.												
UNION, Pittsburgh.....1871.	1893	\$100,000	\$149,063	\$16,941	\$32,122	\$14,949	\$10,325	\$25,274	\$8,041	\$5,873	\$9,252	\$24,066
Andrew W. Mellon, Pres., J. W. J. McLain, Sec.	1892	100,000	148,758	16,447	32,311	15,409	10,381	25,790	7,393	5,955	9,406	24,754
	1891	100,000	126,543	15,446	31,097	16,663	9,900	26,563	8,760	5,865	9,381	24,026
	1890	100,000	144,438	14,380	30,058	15,766	8,481	24,247	5,868	6,037	8,701	20,606
	1889	100,000	145,190	17,801	27,389	15,497	9,811	25,308	5,123	6,150	9,445	20,518
UNITED FIREMENS, Philadelphia.....1860.	1893	300,000	1,294,840	917,064	76,878	294,178	54,755	348,933	226,069	18,000	120,896	364,965
Robert B. Beath, Pres., D. J. Sweeny, Sec.	1892	300,000	1,254,301	870,769	83,532	285,907	53,057	338,964	191,616	18,000	116,304	345,920
	1891	300,000	1,190,614	810,812	79,802	253,873	57,801	311,674	203,277	21,000	101,345	325,622
	1890	300,000	1,167,591	753,935	113,656	241,084	47,755	288,830	116,385	21,000	96,604	234,186
	1889	300,000	1,072,352	693,730	78,622	222,317	44,793	267,020	157,264	18,000	85,250	260,514
WESTERN, Pittsburgh.....1849.	1893	300,000	430,763	119,462	11,301	146,810	16,608	163,418	103,885	.....	43,061	147,846
A. Nimick, Pres., W. P. Herbert, Sec.	1892	300,000	417,159	118,190	—930	155,881	17,131	173,112	139,868	.....	46,045	185,913
	1891	300,000	433,886	131,991	1,995	153,861	19,124	172,925	151,838	9,000	46,707	207,605
	1890	300,000	450,118	131,536	24,582	154,468	19,153	173,621	89,690	18,000	45,448	153,138
	1889	300,000	431,383	108,354	23,099	149,223	20,495	169,628	118,363	18,000	45,596	181,979
RHODE ISLAND.												
EQUITABLE FIRE AND MARINE, Providence*...1859.	1893	300,000	549,784	215,813	33,971	258,690	23,218	281,908	191,812	8,652	100,484	300,948
F. W. Arnold, Pres., Jas. E. Tillinghast, Sec.	1892	300,000	588,109	243,658	44,445	289,057	26,158	315,215	203,605	8,689	111,590	323,384
	1891	300,000	598,059	238,845	59,214	300,709	26,378	327,087	200,545	12,304	118,050	331,407
	1890	300,000	589,611	195,466	94,145	272,786	25,353	298,149	148,001	21,083	104,048	273,072
	1889	300,000	566,945	191,059	75,886	252,532	26,271	278,803	159,964	23,645	92,747	276,356
MERCHANTS, Providence*.....1851.	1893	200,000	463,683	220,504	34,119	285,590	20,697	306,287	198,348	6,000	103,480	397,828
W. T. Barton, Pres., W. P. Goodwin, Sec.	1892	200,000	481,453	235,441	46,011	290,928	21,368	312,296	220,771	6,000	105,733	332,504
	1891	200,000	490,593	232,669	57,894	285,045	21,881	306,926	202,883	8,000	104,402	322,262
	1890	200,000	501,193	199,953	101,240	261,477	22,129	283,606	148,839	14,000	96,073	258,912
	1889	200,000	479,940	197,275	82,665	235,022	22,129	257,151	144,678	16,000	85,338	246,016
PROVIDENCE-WASHINGTON, Providence.....1799.	1893	400,000	1,217,302	797,998	19,394	999,883	41,284	971,167	848,161	.....	314,865	1,166,026
J. H. DeWolf, Pres., J. B. Branch, Vice- Pres., Edward L. Watson, Sec.	1892	400,000	1,418,288	942,668	75,686	1,284,347	51,693	1,335,980	950,458	12,000	430,400	1,392,858
	1891	400,000	1,432,307	945,190	87,117	1,342,851	51,693	1,391,716	823,247	24,000	457,795	1,305,042
	1890	400,000	1,394,548	812,593	112,045	1,130,199	43,200	1,173,498	591,441	24,000	387,977	1,003,118
	1889	400,000	1,444,316	658,208	86,108	953,682	41,288	995,170	665,804	32,000	347,520	1,022,344

* The Equitable Fire and Marine and Merchants Insurance companies do a combined business under the style of the Rhode Island Underwriters Association. — Impairment.

RHODE ISLAND UNDERWRITERS ASS'N *.....1873. Fred W. Arnold, Manager.	1893	500,000	1,013,407	445,317	68,090	544,280	43,915	588,195	390,160	14,652	203,064	608,776
	1894	500,000	1,069,556	479,100	90,456	581,965	47,526	629,491	424,376	14,089	210,823	655,888
	1891	500,000	1,088,562	471,514	117,048	585,754	48,199	633,953	410,438	20,304	222,960	653,692
	1890	500,000	1,091,904	395,419	195,885	540,997	45,069	586,066	296,840	35,023	200,166	532,029
	1889	500,000	1,046,885	388,334	158,551	487,554	48,400	535,954	304,642	39,645	178,085	522,372
SOUTH CAROLINA.												
CITIZENS FIRE AND MARINE, Charleston.....1893.	1893	25,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SOUTH DAKOTA.												
DAKOTA FIRE AND MARINE, Mitchell.....1881.	1893	100,000	147,201	137,331	.....	597	24,845	25,442	14,886	.....	8,983	23,869
Geo. Beed, Pres., Geo. A. Sibley, Sec.	1892	100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	100,000	175,843	58,681	19,162	49,837	13,289	63,126	17,626	.....	28,020	45,646
	1890	100,000	186,686	63,551	17,129	56,598	17,766	74,364	26,072	.....	39,516	65,588
	1889	100,000	171,741	58,345	13,396	61,045	31,474	93,119	43,401	.....	42,075	85,536
YANKTON, Yankton & Co.....1883	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newton Edmunds, Pres., ——— Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	65,000	98,702	22,909	10,793	53,940	8,801	61,741	21,466	.....	37,889	59,355
	1890	65,000	100,139	27,828	7,311	39,349	32,075	61,424	14,247	.....	81,952	79,263
	1889	61,125	111,869	36,016	12,668	34,156	4,170	38,326	36,486	.....	32,566	71,052
TENNESSEE.												
AMERICAN UNION FIRE, LIFE AND INDUSTRIAL, Nashville.....1894.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BLUFF CITY, Memphis.....1871.	1893	150,000	166,912	23,420	-6,958	15,701	8,072	23,773	6,211	.....	8,207	14,418
James C. Neely, Pres., W. H. Moore, Sec.	1892	150,000	157,566	8,600	-1,094	10,732	8,090	27,762	26,006	6,000	8,777	40,783
	1891	150,000	170,397	10,500	10,087	18,450	9,922	28,352	9,280	12,000	8,031	29,311
	1890	150,000	171,546	12,050	9,496	18,618	9,771	28,369	3,600	6,000	7,998	17,598
	1889	150,000	160,756	9,076	1,086	17,376	12,391	29,767	10,395	.....	7,773	18,168
CITIZENS, Memphis.....1886.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
T. B. Sims, Pres., R. W. Parham, Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	100,000	105,341	5,341	.....	5,684	662	6,346	8,053	.....	2,708	10,761
	1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1889	100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EQUITABLE, Nashville.....1869.	1893	150,000	213,862	80,133	-16,271	127,003	6,717	133,720	87,039	.....	44,353	131,392
A. G. Adams, Pres., J. O. Treanor, Sec.	1892	150,000	213,626	78,245	-14,619	121,558	12,068	133,626	100,672	.....	43,760	144,432
	1891	150,000	221,904	86,579	-14,675	112,376	14,822	127,198	72,868	.....	40,469	125,337
	1890	150,000	221,100	57,880	13,220	79,766	15,325	95,091	42,399	12,000	31,198	85,597
	1889	150,000	209,282	49,368	9,914	69,912	14,616	84,528	25,408	12,000	29,053	66,461
FACTORS, Memphis.....1882.	1893	100,000	113,681	6,369	7,312	10,212	9,859	20,071	7,329	.....	6,114	13,443
N. Fontaine, Pres., Jas. E. Beasley, Sec.	1892	100,000	118,881	6,313	12,559	12,200	9,559	21,849	14,227	.....	5,771	20,508
	1891	100,000	148,644	6,066	41,678	12,623	10,879	23,502	17,369	.....	5,068	22,777
	1890	100,000	198,000	9,341	38,665	18,032	9,767	27,819	5,645	.....	13,909	13,909
	1889	150,000	185,903	9,691	26,212	11,759	8,631	20,390	3,324	.....	6,077	10,001

* Composed of the Equitable and Merchants insurance companies of Providence. a Ceased writing new risks early in 1894; may resume. b Includes stock notes secured. c Did no business in South Dakota in 1892; resumed late in 1893. d An examination of the company December, 1889, showed an impairment of \$73,311. e Subscribed capital \$100,000. f Impairment.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended Dec. 31	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other than Losses and Dividends	Total Disburse- ments.
TENNESSEE—Continued.												
HERNANDO, Memphis.....:1860.	1893	\$150,000	\$169,982	\$18,109	\$1,783	\$15,300	\$11,010	\$26,310	\$8,107	.....	\$8,218	\$16,325
S. H. Dunscomb, Pres., J. S. Dunscomb, Sec.	1892	150,000	167,397	7,708	9,686	17,461	10,775	28,236	20,860	\$7,500	9,280	37,040
	1891	150,000	177,138	7,615	19,593	17,206	11,540	28,746	12,669	13,500	8,373	34,540
	1890	150,000	183,098	8,542	23,943	20,944	11,979	32,993	2,668	15,000	7,992	25,600
	1889	150,000	.....	.....	(*)	.....	.....	.....	.....	.....	.....	.....
HOME, Memphis.....:1856.	1893	100,000	109,481	9,481	.....	14,583	8,214	22,797	20,107	.....	.....	28,668
John K. Speed, Pres., B. F. Price, Sec.	1892	100,000	118,290	9,375	8,855	14,221	9,620	23,844	6,810	.....	8,932	15,742
	1891	100,000	116,971	9,606	7,275	14,471	8,284	22,755	639	.....	8,559	9,198
	1890	100,000	110,034	10,034	.....	14,613	8,084	22,697	3,435	.....	8,546	11,981
	1889	100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
HOME, Nashville.....:1885.	1893	100,000	125,760	25,760	.....	45,463	13,669	59,132	36,390	.....	.....	58,370
Geo. R. Crawford, Pres., W. E. Metzger, Sec.	1892	100,000	130,893	27,824	3,066	33,818	7,028	40,846	27,425	.....	21,980	40,978
	1891	100,000	130,962	28,813	2,149	37,331	3,573	40,904	16,364	.....	13,553	27,761
	1890	100,000	120,830	25,027	— 4,197	35,305	11,946	47,251	26,712	.....	11,397	39,387
	1889	100,000	.....	.....	.....	.....	.....	.....	.....	.....	12,675	39,387
KNOXVILLE, Knoxville.....:1879.	1893	100,000	131,092	22,449	8,643	119,954	140,872	260,826	158,843	.....	.....	249,946
D. A. Carpenter, Pres., L. C. Fletcher, Sec.	1892	100,000	258,936	148,759	10,177	195,301	48,635	243,936	166,928	.....	104,990	271,918
	1891	100,000	243,878	122,206	1,672	151,145	107,127	228,272	76,198	12,075	148,559	236,832
	1890	200,000	270,191	62,674	7,517	68,179	14,596	82,705	39,785	15,000	35,562	90,347
	1889	200,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PHOENIX FIRE AND MARINE, Memphis.....:1881.	1893	150,000	161,575	13,597	— 2,022	15,617	9,741	25,358	2,935	.....	8,077	11,012
H. M. Neely, Pres., John Johnson, Sec.	1892	150,000	156,078	7,678	1,600	17,669	8,636	26,265	19,909	6,000	8,922	34,831
	1891	150,000	164,644	8,640	6,004	17,777	10,675	28,452	12,412	12,000	8,489	32,901
	1890	150,000	160,093	12,480	6,613	16,890	10,751	27,641	4,965	6,000	11,310	22,275
	1889	150,000	163,728	10,487	3,241	16,426	10,856	27,282	12,965	.....	8,177	21,142
PLANTERS FIRE AND MARINE, Memphis.....:1867.	1893	150,000	167,213	20,742	— 3,599	21,200	9,432	30,632	16,269	.....	10,475	26,744
D. T. Porter, Pres., F. B. Hunter, Sec.	1892	150,000	175,700	23,980	1,786	24,275	11,489	35,764	26,797	6,000	11,857	44,554
	1891	150,000	187,302	17,203	20,009	24,921	13,349	38,249	23,373	.....	12,688	36,061
	1890	150,000	182,465	23,216	9,249	32,452	12,276	44,728	8,713	.....	11,885	20,598
	1889	150,000	169,936	15,460	4,476	36,601	11,483	48,084	16,619	.....	12,665	29,284

* An examination of the company December, 1889, showed a small surplus.

† Reinsured and reorganized in 1893; policies guaranteed by the Watchtower of New York.

‡ Includes \$86,000 loaned to stockholders.

— Impairment.

† Controlled

STATE, Nashville.....1865	1893	200,000	247,052	36,694	10,368	33,099	14,582	47,681	13,742	6,000	13,381	33,123
G. P. Thruston, Pres., D. R. Johnson, Sec.	1894	200,000	239,000	35,183	9,817	34,415	20,203	54,618	23,170	.....	33,148	56,318
	1891	200,000	263,082	57,565	5,517	46,530	16,533	63,063	24,640	18,000	17,651	60,901
	1890	200,000	260,341	41,992	18,419	36,681	16,738	53,419	15,693	20,000	14,385	50,078
TEXAS.	1889	200,000	256,271	38,265	18,066	36,465	16,395	52,760	13,063	20,000	16,622	49,685
ALAMO, San Antonio.....1889	1893	200,000	291,054	120,918	—	126,674	17,900	144,574	105,813	.....	57,915	163,798
F. Groos, Pres., S. D. Scudder, Sec.	1892	200,000	302,126	99,881	2,245	127,411	16,423	143,834	85,545	.....	37,592	123,073
	1891	200,000	286,810	70,593	1,307	75,447	8,520	83,957	41,666	12,500	25,627	79,733
	1890	200,000	243,781	43,423	358	41,212	11,030	52,251	14,480	.....	18,568	33,048
UTAH.	1889	125,000	131,146	8,628	—	9,165	2,017	11,182	1,179	.....	7,162	8,341
HOME, Salt Lake City.....1886	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Heber J. Grant, Pres., Rulon S. Wells, Sec.	1892	250,000	340,000	.....	.....	41,036	.....	.....	.....	.....	.....	.....
	1891	250,000	312,943	25,717	37,226	17,677	.....	43,298	.....	.....	.....	37,712
	1890	.....	.....	.....	.....	14,891	.....	.....	.....	.....	.....	.....
VERMONT.	1889	100,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
NEW ENGLAND, Rutland.....1881	1893	125,000	152,041	34,288	—	27,755	4,902	32,657	18,066	.....	14,196	32,262
John A. Mead, Pres., J. R. Hoadley, Sec.	1892	125,000	154,837	33,031	7,247	25,797	515	26,282	15,793	.....	10,494	26,197
	1891	125,000	155,056	33,857	—	25,350	3,850	29,200	18,590	1,050	11,762	25,602
	1890	125,000	158,613	33,224	429	26,931	5,070	32,001	20,777	.....	10,772	31,501
	1889	125,000	157,153	30,981	1,172	26,700	1,066	27,766	12,326	1,050	12,498	25,874
RUTLAND, Rutland.....1864	1893	100,000	126,561	14,141	12,420	27,769	.....	27,769	2,245	.....	25,501	27,746
W. H. Hubbard, Pres., T. J. Browne, Sec., C. Parmenter, Agency Mgr.	1892	100,000	114,560	.....	14,560	.....	.....	.....	.....	.....	.....	.....
VIRGINIA.*	1893	.....	.....	.....	.....	.....	.....	45,596	27,387	.....	.....	.....
ALEXANDRIA, Alexandria.....1870	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Benoni Wheat, Pres., George Wise, Sec.	1891	57,275	70,041	29,450	—	35,245	3,523	38,768	23,031	2,323	11,385	36,739
	1890	53,839	72,562	16,911	1,832	28,175	3,221	31,396	13,227	2,991	9,758	25,270
FARMERS AND MECHANICS, Alexandria.....1892	1893	100,000	157,838	50,016	7,822	49,301	4,961	54,262	23,655	4,000	9,129	36,784
Llewellyn G. Estes, Pres., Alex. Garden, Sec.	1892	100,000	118,011	7,395	10,796	11,210	620	11,830	1,975	.....	2,399	4,284
Mt. VERNON, Alexandria.....1888	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
F. E. Corbett, Pres., A. A. Warfield, Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	50,000	58,866	12,088	—	15,286	894	16,186	12,219	2,000	5,282	19,501
	1890	50,000	55,448	4,843	605	13,505	756	14,261	6,647	2,000	4,181	12,888
	1889	50,000	56,615	5,468	1,147	.....	.....	.....	6,321	1,000	4,615	11,936

* The following companies having a nominal existence, are located in this State and write so-called "surplus" fines. The publishers have not deemed it worth while to admit their reports to these pages: Atlantic Fire, Richmond; Commonwealth, Winchester; First National, Fredericksburg; German-American, Richmond; Jefferson, Charlottesville; Provident, Richmond; Roanoke Underwriters, Roanoke; United Fire, Alexandria; Virginia Farmers, Norfolk; Westmoreland, Colonial Beach. † Statement given by company for nine months. ‡ Began business July 1, 1888. § Began business August 1, 1889. ‖ Includes organizing expenses. — Impairment. c Capital reduced.

to \$150,000 in 1894.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year ended	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends	Expenses Other than Losses and Dividends	Total Disburse- ments.
VIRGINIA—Continued.												
NORFOLK F. & M., Norfolk.....	1893	\$100,000	\$112,972	\$9,016	\$9,956	\$7,487	\$3,664	\$11,151	\$1,106	.....	\$6,080	\$7,186
L. L. Miller, Pres., E. Costerton, Sec.												
PETERSBURG SAVINGS & INS. CO., Petersburg. 1860.	1893	200,000	795,956	495,862	100,094	39,298	59,901	99,199	27,103	\$14,000	55,981	97,054
Fred. R. Scott, Pres., E. W. Butcher, Sec.	1892	200,000	1,001,840	703,800	98,040	42,942	66,200	109,142	33,076	14,000	45,368	92,384
	1891	200,000	918,097	622,610	85,487	33,083	69,621	96,704	15,473	14,000	42,411	71,864
	1890	200,000	876,925	613,925	63,000	32,701	57,238	89,939	18,541	14,000	49,931	73,472
	1889	200,000	840,829	599,036	41,793	31,650	69,370	95,020	40,789	14,000	45,439	100,228
PLANTERS, Alexandria.....	1893	100,000	121,382	9,344	12,038	18,249	440	18,689	902	.....	3,916	4,818
Grenville Gaines, Pres., J. F. Lantry, Sec.												
PORTSMOUTH, Portsmouth.....	1893	31,275	91,450	11,221	48,954	16,660	5,820	22,480	13,303	3,128	6,381	22,812
John C. Emerson, Pres., W. V. H. Williams, Sec.	1892	31,275	91,996	23,141	37,180	29,280	5,047	24,327	15,690	3,128	9,108	28,068
	1891	31,275	85,950	19,493	33,182	24,548	4,754	29,302	12,267	3,128	8,204	23,599
	1890	31,275	80,331	12,443	36,611	15,960	5,213	21,173	8,116	3,128	5,066	16,330
	1889	31,275	75,549	17,966	26,308	17,939	4,231	22,170	5,930	3,128	6,286	15,344
RICHMOND MUTUAL, Richmond.....	1893	50,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chas. E. Whitlock, Pres., Albert Blair, Sec.												
UNION, Richmond.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
L. R. Warren, Pres., W. Irving (Short Hills, N. J.), Sec.												
VIRGINIA FIRE AND MARINE, Richmond.....	1893	250,000	669,755	350,640	69,115	345,575	29,902	375,477	301,458	22,440	100,175	424,073
	1892	250,000	720,366	341,316	120,050	333,437	27,759	361,187	212,530	25,000	98,414	335,953
	1891	250,000	680,078	289,953	140,135	307,971	31,977	339,948	199,886	25,000	92,133	317,025
	1890	250,000	652,636	260,334	142,302	280,186	31,109	311,295	144,660	24,761	86,225	255,666
	1889	250,000	615,392	231,113	134,279	251,948	26,515	278,463	172,422	22,800	69,693	264,845
VIRGINIA STATE, Richmond.....	1893	200,000	365,702	157,571	8,131	267,699	24,571	292,270	227,291	12,000	82,685	321,976
	1892	200,000	427,895	170,159	57,746	288,464	25,445	313,949	168,853	12,000	93,843	274,696
	1891	200,000	379,274	124,020	55,254	195,016	19,016	248,054	91,575	12,000	57,884	161,456
	1890	200,000	306,390	62,606	43,793	86,958	19,022	105,150	36,754	12,000	27,045	75,799
	1889	200,000	287,483	49,146	38,337	64,612	16,442	81,054	35,756	12,000	21,544	\$ 74,600

§ Includes \$5,300 not included in management expenses. a Company's own statement.

STATISTICS OF AMERICAN FIRE AND MARINE INSURANCE COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year Ending Dec. 31.	Cash Capital.	Total Assets Exclusive of Prem. Notes.	Total Liabilities Except Capital.	Net Surplus.	Cash Premiums Received.	Interest and Other Receipts.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disburse- ments.
WISCONSIN—Continued.												
MILWAUKEE MECHANICS, Milwaukee, .....1852	1893	\$200,000	2,016,504	\$812,932	1,003,572	\$831,562	\$90,723	\$972,285	\$559,918	\$40,000	\$352,828	\$952,746
C. Preusser, Pres., A. J. Cramer, Sec.	1892	200,000	1,954,996	689,196	1,065,800	769,234	88,544	857,778	438,327	60,000	300,873	799,200
	1891	200,000	1,866,680	587,330	1,079,350	639,650	82,079	721,769	276,655	60,010	243,154	579,819
	1890	200,000	1,737,193	516,853	1,020,340	552,395	85,844	638,239	259,446	50,120	211,972	531,538
	1889	200,000	1,621,604	499,060	922,544	518,868	102,723	621,591	267,800	50,029	219,592	537,421
NORTHWESTERN NATIONAL, Milwaukee, .....1869.												
Alfred James, Pres., John P. McGregor, Sec.	1893	600,000	1,633,979	723,795	310,184	631,972	73,446	705,418	359,041	30,000	265,475	654,516
	1892	600,000	1,716,016	710,462	495,554	650,692	73,997	724,689	316,495	60,000	267,218	643,623
	1891	600,000	1,690,243	644,841	385,402	615,796	70,604	686,400	318,015	60,000	253,186	631,204
	1890	600,000	1,579,917	580,997	399,820	559,495	65,715	625,210	270,379	60,000	218,999	549,369
	1889	600,000	1,504,799	560,596	344,203	552,369	64,960	617,329	268,959	66,000	213,059	578,018
AMERICAN MUTUAL COMPANIES.												
The following table shows the transactions for the past five years of American mutual companies having cash assets of \$15,000 and upwards :												
NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year Ending Dec. 31.	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
CONNECTICUT.												
DANBURY MUTUAL, Danbury, .....1850.	1893	\$28,641	.....	\$1,788	.....	\$26,853	\$825	\$2,068	\$1,054	.....	\$498	\$1,552
Norman Hodge, Pres., J. B. Wildman, Sec.	1892	28,340	.....	1,560	.....	26,780	999	2,735	454	.....	480	934
	1891	26,599	.....	944	.....	25,655	768	1,948	13	.....	498	491
	1890	25,299	\$11,921	511	\$36,709	24,788	538	2,918	15	.....	346	361
	1889	22,701	11,272	624	33,409	22,137	542	1,634	.....	.....	392	392
HARTFORD COUNTY MUTUAL, Hartford, .....1831.												
W. E. Sugden, Pres., Wm. A. Erving, Sec.	1893	514,844	.....	76,865	.....	437,979	46,107	72,841	15,404	.....	20,349	35,753
	1892	501,523	.....	69,858	.....	431,665	44,247	69,109	31,687	.....	20,157	51,844
	1891	479,541	.....	62,774	.....	409,767	43,657	66,642	18,636	.....	19,046	37,682
	1890	453,480	.....	68,100	.....	385,380	42,522	64,926	21,220	.....	19,778	40,998
	1889	432,531	.....	67,953	.....	364,578	40,216	62,770	26,801	.....	17,998	44,799

LITCHFIELD MUTUAL, Litchfield. Chas. B. Andrews, Pres., H. W. Wessels, Sec.	1893 1892 1891 1890 1889	101,362 105,093 104,094 102,856 104,892	..... ..... ..... ..... .....	9,336 9,203 9,680 9,946 9,334	..... ..... ..... ..... .....	92,026 95,890 94,814 92,910 95,558	4,460 5,874 4,777 4,605 5,127	8,950 10,721 9,358 9,161 9,413	5,872 6,415 9,615 8,453 3,435	..... ..... ..... ..... .....	3,313 2,783 2,316 2,397 2,226	9,185 9,198 4,931 10,780 5,661
MIDDLESEX MUTUAL, Middletown. O. Vincent Coffin, Pres., C. W. Harris, Sec.	1893 1892 1891 1890 1889	664,182 730,666 696,992 674,481 654,738	..... ..... ..... ..... .....	149,970 173,919 145,227 136,224 130,719	..... ..... ..... ..... .....	514,212 556,747 551,765 538,257 534,019	76,204 74,675 71,754 66,480 62,569	120,889 114,972 107,073 100,744 97,049	59,118 46,869 21,747 31,905 31,091	..... ..... ..... ..... .....	43,814 37,597 46,281 33,196 29,531	104,932 84,396 62,028 65,561 60,622
NEW LONDON COUNTY MUTUAL, Norwich. E. F. Parker, Pres., J. F. Williams, Sec.	1893 1892 1891 1890 1889	103,812 93,280 98,325 95,889 91,614	..... ..... ..... ..... .....	25,353 23,220 19,977 16,605 14,071	..... ..... ..... ..... .....	78,459 80,958 76,348 79,284 77,543	18,117 17,543 13,110 12,191 10,147	22,579 22,053 17,585 16,358 15,013	10,222 10,101 9,069 12,669 6,731	..... ..... ..... ..... .....	7,415 6,660 5,672 5,685 4,888	17,637 16,770 14,741 18,355 11,619
STATE MUTUAL, Hartford. Isaac Cross, Jr., Pres., F. H. Daniels, Sec.	1893 1892 1891 1890 1889	31,279 40,720 47,882 46,401 49,599	35,668 35,738 36,687 38,193 40,599	..... ..... ..... ..... .....	10,668 11,499 9,312 11,852 10,330	56,219 64,959 75,257 72,742 79,798	20,611 20,221 38,570 34,549 39,269	7,820 7,274 7,363 7,651 7,698	9,526 4,697 8,915 7,559 10,220	..... ..... ..... ..... .....	5,024 5,199 5,211 5,674 5,365	10,884 9,896 10,968 13,433 9,465
TOLLAND COUNTY MUTUAL, Tolland. W. D. Holman, Pres., Ed. E. Fuller, Sec.	1893 1892 1891 1890 1889	67,547 64,217 61,699 67,083 73,638	154,742 146,789 148,306 156,844 178,753	44,598 49,582 42,572 43,663 47,713	..... ..... ..... ..... .....	177,691 168,324 167,373 180,264 204,677	22,949 21,535 19,067 23,420 25,925	30,727 25,912 24,699 24,381 24,153	20,011 15,710 27,286 28,324 27,685	..... ..... ..... ..... .....	9,668 10,074 8,201 8,890 8,858	29,679 25,784 32,728 34,879 26,623
WINDHAM COUNTY MUTUAL, Brooklyn. David Greenalt, Pres., James C. Palmer, Sec.	1893 1892 1891 1890 1889	47,972 48,766 52,385 52,756 58,744	248,668 256,457 256,984 260,660 263,242	25,461 28,346 29,358 26,066 26,324	..... ..... ..... ..... .....	271,119 276,817 280,011 287,350 295,662	22,511 20,360 23,027 26,690 32,420	12,484 12,926 13,364 12,701 12,829	15,998 15,425 11,574 15,452 15,422	..... ..... ..... ..... .....	4,464 4,227 4,649 4,296 4,199	13,872 19,105 16,223 19,920 18,292
CANTWELL MUTUAL, Odessa. John C. Corbit, Pres., Joseph G. Brown, Sec.	1893 1892 1891 1890 1889	99,525 94,473 24,125 24,714 26,114	..... ..... ..... ..... .....	245 498 908 24,714 (1)	..... ..... ..... ..... .....	99,280 93,975 93,217 26,114 86,399	..... ..... ..... ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... .....	3,080 2,772 7,563 6,888 975
FARMERS MUTUAL, Wilmington. Wm. T. Porter, Pres., Wm. A. La Motte, Sec.	1893 1892 1891 1890 1889	227,221 222,079 225,228 228,547 246,404	812,009 795,887 802,662 835,070 900,281	16,204 4,201 6,290 16,869 28,268	..... ..... ..... ..... .....	1,016,046 1,013,705 1,021,600 1,046,748 1,118,417	204,017 217,878 218,938 211,678 218,136	40,675 40,234 40,849 41,411 44,177	51,634 49,850 51,620 51,995 55,863	..... ..... ..... ..... .....	19,742 7,272 16,720 7,771 7,301	52,628 38,667 10,748 41,628 51,518

† Reserve for unearned premiums not provided for.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year of Organization	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabilities.	Surplus, Including Deposit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
DELAWARE—Continued.												
KENT COUNTY MUTUAL, Dover......1847.	1893	\$57,789	\$689,343	\$4,575	\$748,557	\$53,214	\$32,620	\$35,592	\$14,800	\$5,259	\$7,625	\$27,684
James Ponder, Pres., Wm. Denney, Sec.	1892	61,282	653,239	18,478	696,043	42,804	31,520	34,587	31,826	9,076	7,994	49,496
	1891	71,066	634,726	2,002	793,790	69,004	31,163	34,470	17,425	9,243	7,391	34,059
	1890	67,671	646,185	15,475	698,381	59,104	31,377	34,881	12,866	12,866	7,937	34,884
	1889	66,103	649,369	9,500	705,972	56,603	32,123	36,011	24,034	12,284	8,625	44,943
NEW CASTLE COUNTY MUTUAL, Wilmington, 1850.	1893	130,422	348,106	1,808	476,810	128,614	16,610	21,987	1,766	6,679	6,065	14,510
Wm. Canby, Pres., M. M. Cleaver, Sec.	1892	128,433	344,313	2,704	470,422	125,799	16,180	23,300	8,499	7,213	6,200	21,912
	1891	133,395	335,120	8,941	459,564	124,444	10,401	22,550	14,579	9,287	5,084	21,912
	1890	127,724	353,252	77,521	493,455	50,203	16,974	23,388	4,871	6,272	4,735	15,879
	1889	122,916	359,107	(t)	482,023	122,916	17,106	24,302	4,591	5,663	4,607	14,861
DISTRICT OF COLUMBIA.												
MUTUAL, Washington......1855.	1893	339,081	2,355,256	339,081	.....	.....	24,678	40,687	10,889	12,531	8,826	22,246
J. B. Wilson, Pres., J. Wesley Boteler, Sec.	1892	310,658	2,255,156	310,658	.....	.....	23,338	92,645	8,148	12,474	8,659	91,181
	1891	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1890	281,002	2,126,334	281,002	.....	.....	22,421	72,151	10,755	12,102	.....	80,257
	1889	274,775	2,029,529	274,775	.....	.....	.....	98,931	5,734	13,383	79,814	98,931
GEORGIA.												
SOUTHERN MUTUAL, Athens......1849.	1893	886,903	.....	243,614	.....	643,289	259,513	302,426	53,687	147,990	65,384	266,991
W. W. Thomas, Pres., A. E. Griffith, Sec.	1892	915,368	.....	246,734	.....	668,634	254,075	311,135	170,853	155,097	65,194	337,144
	1891	973,127	.....	277,946	.....	695,181	245,355	299,793	66,563	175,758	62,378	342,099
	1890	1,016,527	.....	331,624	.....	684,903	239,760	292,664	40,280	135,956	61,902	244,176
	1889	997,768	.....	293,158	.....	674,610	236,821	295,025	158,325	134,530	62,096	354,951
ILLINOIS.												
ADDISON FARMERS MUTUAL, Addison......1855.	1893	29,462	119,757	12,405	136,814	17,057	5,441	6,580	4,909	98	1,385	6,392
Francis Stoehke, Pres., Otto A. Fischer, Sec.	1892	29,157	112,597	12,102	129,472	16,985	3,584	4,513	2,193	73	1,145	2,411
	1891	27,247	108,870	14,343	121,774	12,904	4,510	7,159	4,368	79	1,172	5,617
	1890	27,298	102,440	13,965	115,813	13,333	7,868	8,817	4,268	36	1,413	5,717
	1889	23,794	101,903	10,719	114,888	12,985	5,037	5,890	1,880	57	1,003	2,940
LOMBARDIENS MUTUAL, Chicago......1889.												
C. B. Flinn, Pres., E. E. Hooper, Sec.	1893	18,221	60,484	6,627	75,077	11,594	15,923	16,120	6,602	.....	.....	11,221
	1892	13,025	61,382	7,206	67,230	5,844	14,164	14,440	1,303	2,006	4,820	8,131
	1891	6,974	73,481	7,860	72,595	— 886	19,987	20,050	19,862	1,181	6,072	27,114
	1890	26,427	113,852	24,150	110,129	2,277	30,070	30,418	10,078	.....	12,274	28,352
	1889	16,492	126,693	18,968	124,217	— 2,476	30,701	30,748	8,234	.....	15,134	23,368

* Receipts include \$13,361 on loans, and "other expenses" include \$30,815 loans on real estate. † Reserve for unearned premiums not provided for.

† Includes outstanding scrip. ‡ Impairment.

§ Receipts and expenditures for investments excluded.

MANUFACTURERS & MERCH. MUT., Rockford...1881. Henry W. Price, Pres., Geo. S. Roper, Sec.	1893 1894 1895 1896 1897 1898 1899	94,778 80,360 85,417 76,544 67,111 221,271 221,271	515,391 508,757 195,099 217,399 221,271 221,271 221,271	71,668 50,598 45,709 44,088 33,736 33,736 33,736	536,501 398,186 234,867 251,705 254,646 254,646 254,646	21,110 29,822 39,708 34,456 33,375 33,375 33,375	111,011 78,330 45,156 58,851 63,899 63,899 63,899	119,700 84,571 54,247 60,924 65,837 65,837 65,837	65,465 55,376 23,478 17,969 33,171 33,171 33,171	7,224 6,571 10,342 11,275 11,109 11,109 11,109	38,167 29,845 18,493 21,030 22,320 22,320 22,320	110,856 91,794 54,313 50,274 60,600 60,600 60,600	
MILLERS MUT. FIRE INS. ASS'N OF ILL., Alton...1877. D. R. Sparks, Pres., A. R. McKinney, Sec.	1893 1894 1895 1896 1897 1898 1899	81,138 73,752 63,108 49,086 41,109 286,265 286,265	343,479 328,984 319,737 284,678 286,265 286,265 286,265	24,173 21,916 20,622 19,098 12,291 12,291 12,291	400,444 380,820 362,223 354,666 315,083 315,083 315,083	56,965 51,836 42,486 29,988 28,818 28,818 28,818	55,854 52,654 54,525 54,514 42,595 42,595 42,595	58,845 54,716 50,344 56,163 43,509 43,509 43,509	41,686 35,564 30,155 36,389 28,854 28,854 28,854	285	8,871 10,489 9,916 12,478 7,342 7,342 7,342	50,842 46,053 40,071 48,867 36,196 36,196 36,196	
MILLERS NATIONAL, Chicago.....1865. C. H. Seybt, Pres., W. L. Barnum, Sec.	1893 1894 1895 1896 1897 1898 1899	593,826 512,970 463,110 379,953 378,904 1,210,974 1,210,974	1,593,805 1,497,904 1,311,292 1,237,135 1,504,120 1,455,807 1,455,807	173,489 154,764 115,417 112,068 134,131 134,131 134,131	1,024,142 1,826,070 1,658,985 1,504,120 1,455,807 1,455,807 1,455,807	330,337 358,106 347,693 266,985 244,833 244,833 244,833	218,093 204,580 208,232 248,419 195,759 195,759 195,759	242,747 224,868 225,911 263,622 205,673 205,673 205,673	203,815 140,137 111,198 177,036 135,187 135,187 135,187	..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	257,414 189,378 156,359 221,647 182,922 182,922 182,922
MUTUAL FIRE, Chicago.....1894. Frank Drake, Mgr.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
NORTHWESTERN MUTUAL, Rock Island.....1894. H. A. Ainsworth, Pres., W. B. Ferguson, Sec.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PROTECTION MUTUAL, Chicago.....1887. Geo. W. Powell, Pres., Frank L. Bellow, Sec.	1893 1894 1895 1896 1897 1898 1899	51,413 51,397 33,864 30,451 23,657 21,579 21,579	395,869 260,700 213,061 201,281 201,281 201,281 201,281	42,045 27,570 20,513 25,886 25,886 25,886 25,886	315,237 284,597 217,412 205,846 205,846 205,846 205,846	9,368 23,827 4,351 4,595 4,595 4,595 4,595	61,571 51,225 42,645 39,941 35,843 35,843 35,843	64,386 53,539 43,948 41,401 30,431 30,431 30,431	27,743 10,417 15,021 8,945 6,622 6,622 6,622	24,945 12,878 11,723 11,141 8,366 8,366 8,366	13,054 12,878 13,265 13,737 17,056 17,056 17,056	65,742 36,173 41,009 33,823 33,624 33,624 33,624	
PULASKI MUTUAL, Chicago.....1893. Emil H. Bessa, Pres., A. J. Kwagroch, Sec.	1893	12,748	42,572	12,222	43,098	526	14,793	15,213	395	194	1,965	2,464	2,464
RICHMOND FARMERS MUTUAL, Richmond...1894.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SCHUYLER COUNTY FARMERS, Rushville.....1893.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOWNSHIP MUTUAL, Peatonica.....1894. N. L. Colley, Pres., Phil Swartz, Sec.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WESTERN MANUFACTURERS MUT., Chicago...1869. Wm. E. Smith, Pres., T. Geo. Hislop, Sec.	*1893	48,291	187	.....	48,478	48,291	.....	2,023	9,070	.....	.....	7,670	16,740

* Reorganized in 1894; statement for two years ending December 31, 1893. † Reorganized. ‡ Includes payments to scripsholders.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year begun business	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
INDIANA.												
GERMAN MUTUAL, Indianapolis.....1854.	1893	\$163,701	\$211,493	\$8,549	\$366,645	\$155,152	\$17,767	\$3,156	\$12,741	.....	\$10,012	\$22,753
Adolph Seidensticker, Pres., Lorenz Schmidt, Sec.	1892	154,565	223,928	61,190	317,393	93,375	22,149	32,940	5,674	\$4,159	12,983	22,816
	1891	143,536	232,743	(1)	376,273	143,536	.....	.....	8,759	.....	.....	.....
	1890	135,170	245,738	23,420	357,488	111,750	24,362	32,908	12,687	2,957	14,148	29,792
	1889	129,823	255,933	(1)	385,756	129,823	25,412	33,918	8,822	2,574	8,076	19,472
INDIANA MILLERS MUTUAL, Indianapolis.....1889.												
M. S. Blish, Pres., E. E. Perry, Sec.	1893	15,738	171,840	5,000	182,578	10,738	43,621	44,401	32,517	4,215	10,426	47,158
	1892	17,926	133,985	150	151,841	17,856	31,951	32,797	16,856	3,322	7,489	27,667
	1890	12,569	132,563	(1)	145,132	12,569	9,028	21,319	9,186	3,646	7,772	20,664
IOWA.												
COMMERCIAL MUTUAL, Des Moines.....1894.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Frank T. Campbell, Pres., S. G. Lee, Sec.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
IOWA MUTUAL, Des Moines.....1893.												
Miles B adford, Pres., J. B. Herriman, Sec.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
IOWA STATE, Keokuk.....1855.												
Smith Hamill, Pres., Howard Tucker, Sec.	1893	57,514	607,485	16,960	658,099	50,554	96,154	99,666	37,848	.....	58,653	96,501
	1892	59,167	562,695	16,950	614,912	52,217	90,581	93,570	50,557	.....	44,530	95,087
	1891	92,887	517,279	13,550	606,606	89,337	83,686	86,059	46,332	.....	39,318	85,650
	1890	58,283	473,144	13,550	598,377	55,233	78,668	81,282	38,178	.....	38,467	76,645
	1889	42,681	455,572	11,600	496,853	41,281	72,535	74,411	34,212	217	33,904	67,933
MADISON FIRE, Fort Madison.....1894.												
	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MILL OWNERS, Des Moines.....1875.												
E. A. Consigny, Pres., J. G. Sharp, Sec.	1893	26,032	103,170	6,000	125,202	22,032	82,406	83,842	60,701	2,903	10,099	73,703
	1892	17,893	101,212	2,000	117,195	15,893	62,138	61,157	47,913	2,305	10,096	60,314
	1891	17,051	90,594	24,969	92,666	2,082	43,326	44,377	33,291	167	7,777	41,235
	1890	13,959	77,913	20,441	71,441	-6,472	39,755	39,256	30,447	147	6,615	37,209
	1889	11,920	71,000	.....	82,920	11,920	46,271	46,417	33,345	.....	6,352	39,697
MUT. GERMAN PROTESTANT FIRE, Burlington 1894.												
H. R. Pritzlaff, Pres., F. Davies, Sec.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
UNDERWRITERS MUTUAL, Sioux City.....1891.												
E. F. Philbrook, Pres., J. L. Mable, Sec.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1892	15,172	67,584	8,070	74,676	7,102	65,580	65,580	12,468	.....	52,067	64,535

‡ Reserve for unearned premiums not provided for.

c Includes amount reclaimable on perpetual policies.

— Impairment.

Year	Name	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488
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ness on the cash plan.
report to insurance de

Includes premiums

Reserve for Investments.

6 Includes borrowed money repaid.

• Kentucky mutual companies did not include investment.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year ended 1897	Cash Admitted Assets.	Amount of Deposit Notes.*	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disbur- sements.
MARYLAND—Continued.												
MUTUAL OF BALTIMORE CITY, Baltimore.....1886.	1893	\$32,208	\$261,182	\$9,580	\$283,810	\$22,628	\$57,482	\$58,716	\$26,109	\$31,548	\$7,227	\$64,884
Dr. Frank Slingsluff, Pres., W. H. Purcell, Sec..	1892	36,178	208,782	797	244,163	35,381	45,604	46,618	617	20,459	6,741	27,817
	1891	14,703	116,603	119	131,187	14,584	26,892	27,513	7,751	5,589	10,581	23,925
	1890	11,093	91,366	417	101,022	10,556	20,099	21,081	15,843	5,939	4,380	20,162
	1889	16,766	107,200	8,154	115,672	8,612	22,112	23,073	4,847	6,446	4,287	15,580
MUTUAL OF BALTIMORE COUNTY, Baltimore...1849.	1893	37,720	351,718	33,825	355,613	3,895	15,180	40,111	14,248	.....	.....	42,016
T. H. Matthews, Pres., Francis Shriver, Sec.	1892	37,512	359,766	24,790	372,488	12,725	16,857	36,854	7,613	.....	5,087	36,700
	1891	37,026	364,148	33,724	368,350	4,202	17,524	43,822	15,923	.....	30,177	46,112
	1890	38,855	387,799	30,247	396,407	8,668	16,475	35,663	15,580	.....	24,358	39,938
	1889	40,787	417,257	40,434	411,590	-5,667	19,867	43,253	12,065	.....	28,204	40,269
MUTUAL OF CARROLL COUNTY, Westminster...1869.	1893	19,376	223,547	2,669	241,254	16,707	6,625	7,917	4,359	.....	3,558	7,917
J. W. Hering, Pres.; R. Manning, Sec.	1892	21,519	211,450	3,522	229,447	17,997	6,490	14,532	4,325	.....	1,869	14,532
	1891	21,675	198,811	593	219,893	21,082	6,378	13,881	11,511	.....	2,370	13,881
	1890	22,817	192,241	3,056	212,002	19,761	6,416	8,792	4,239	.....	4,553	8,792
	1889	25,140	187,231	3,733	202,638	21,407	9,396	9,396	4,501	.....	5,311	9,812
MUTUAL OF FREDERICK CO., Frederick City...1843.	1893	27,571	174,260	9,470	192,361	18,101	3,485	4,851	279	.....	2,306	2,585
Charles E. Trall, Pres., John H. Cuthall, Sec.	1892	24,750	172,329	11,091	185,988	13,659	3,476	4,909	806	.....	1,847	2,653
	1891	25,540	189,048	13,106	201,482	12,434	3,663	5,184	408	.....	2,648	2,948
	1890	26,676	201,497	15,843	212,330	10,833	3,803	5,472	443	.....	2,608	3,048
	1889	31,599	227,598	21,322	237,715	10,207	4,566	5,960	2,687	.....	2,730	5,417
MUTUAL IN HARFORD CO., Bel-Air.....1842.	1893	47,319	593,098	2,350	548,667	44,969	23,396	24,702	16,015	.....	5,493	21,508
Rich. Dallam, Pres., Geo. R. Cairnes, Sec.	1892	45,033	461,355	7,485	498,993	37,548	18,883	20,747	14,550	.....	3,788	21,338
	1891	43,667	432,204	7,517	468,354	36,150	18,933	23,824	25,101	.....	5,881	30,982
	1890	50,993	439,068	11,156	478,995	39,837	18,150	22,090	20,242	.....	2,565	22,807
	1889	50,548	412,936	4,973	458,511	45,575	18,595	20,699	16,546	.....	2,275	18,821
MUTUAL OF KENT CO., Chestertown.....1847.	1893	91,773	192,079	53,301	220,351	38,472	12,549	18,466	18,787	6,506	2,869	28,162
Wm. N. E. Wickes, Pres., Geo. B. Westcott, Sec.	1892	94,524	192,501	62,019	220,666	36,505	6,720	12,052	8,561	6,445	2,699	17,635
	1891	107,026	182,225	61,285	286,277	45,741	7,239	13,803	7,750	12,344	3,669	19,793
	1890	113,063	179,101	66,828	225,335	46,234	7,832	14,370	7,014	6,010	5,303	18,327
	1889	116,483	172,000	53,885	234,598	62,558	6,864	12,395	2,484	2,395	516	5,395

§ Includes investments, \$3,750, and borrowed money paid, \$4,677. / Includes \$310 invested in bonds. — Impairment.
 ¶ Includes investments, \$3,750, and borrowed money paid, \$4,677. / Includes \$310 invested in bonds. — Impairment.
 * Includes payments to scripholders. c Includes \$5000 note redeemed.

1893 1892 1891 1890 1889	MUTUAL OF MONTGOMERY Co., Sandy Spring, 1848. Jos. T. Moore, Pres., Rob't R. Moore, Sec.	63,357	1,566,142	1,397	1,628,102	61,960	56,760	96,100	88,251	.....	9,413	97,664
		101,891	1,406,163	2,350	1,595,704	99,541	53,761	58,959	68,353	.....	8,397	76,790
		119,839	1,347,787	5,724	1,461,902	114,115	51,307	55,091	33,597	.....	7,412	43,009
		105,857	1,325,963	6,868	1,425,012	99,049	50,402	66,379	48,163	.....	7,850	66,993
		102,906	1,399,263	8,814	1,423,355	94,092	62,158	99,306	50,486	.....	7,727	191,295
1894	MUTUAL OF SOMERSET & WICOMICO Co's.....1894.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1893	MUTUAL OF SOMERSET & WORC. Co's., P. Anne, 1867. H. H. Dashiell, Pres., L. L. Waters, Sec.	15,338	107,646	2,100	120,884	13,238	6,210	6,854	4,041	.....	1,398	5,439
1892		15,333	103,175	3,708	114,800	11,025	5,172	5,888	7,801	12	1,110	8,923
1891		17,176	104,182	.....	119,358	17,176	5,096	5,976	2,508	23	1,148	9,679
1890		15,048	101,063	1,146	114,965	13,902	6,011	6,356	5,074	17	1,124	6,215
1889		15,985	99,344	2,350	112,979	13,635	4,999	5,631	2,792	34	1,195	4,021
1893	MUTUAL OF WASHINGTON Co., Hagerstown....1845. Sam'l. B. Loose, Pres., Wm. H. Armstrong, Sec.	98,872	41,207	4,592	135,487	94,280	4,576	9,152	6,155	3,120	1,575	10,850
1892		100,865	41,468	5,495	130,842	95,374	4,454	7,895	1,373	2,218	1,593	5,154
1891		95,663	40,541	4,795	131,469	90,928	4,251	8,869	1,640	2,181	1,464	5,285
1890		92,005	40,036	4,638	127,493	87,967	4,041	9,175	1,146	2,337	1,352	4,835
1889		87,478	40,015	4,809	122,684	82,669	3,879	7,262	994	2,144	1,315	4,453
1894	STANDARD MUTUAL, Middletown.....1894. Wm. W. Doub, Mgr.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MASSACHUSETTS.												
1893	ABINGTON MUTUAL, Abington.....1856. Henry B. Pierce, Pres., Carlos P. Faunce, Sec.	98,560	127,521	76,952	149,120	21,608	44,846	50,539	23,972	16,670	13,219	53,870
1892		101,284	126,859	66,621	161,522	34,663	45,109	50,510	19,733	16,068	13,549	49,350
1891		100,564	126,543	65,984	161,193	34,580	43,702	49,418	22,495	13,618	13,083	49,196
1890		100,135	122,419	66,721	155,833	33,414	40,250	51,981	23,588	12,178	13,593	49,399
1889		98,879	112,679	57,150	154,468	41,729	49,573	54,577	19,273	10,651	15,605	45,599
1893	ARKWRIGHT MUTUAL, Boston.....1860. R. W. Toppan, Pres., D. W. Bartlett, Sec., W. H. H. Whiting and J. W. Linnell, Asst. Secs.	691,299	3,693,853	370,602	4,014,550	320,697	740,049	768,139	187,254	527,829	49,025	764,118
1892		691,264	3,540,254	363,623	3,867,895	327,641	700,959	724,703	91,562	520,224	48,505	669,201
1891		629,394	3,334,097	342,948	3,620,453	286,356	691,515	711,631	183,714	529,915	42,738	536,367
1890		455,118	2,225,987	226,400	2,454,705	226,718	446,302	462,030	79,951	328,699	28,052	436,902
1889		436,795	2,155,104	218,493	2,373,406	218,302	434,919	451,882	112,882	317,030	28,587	458,499
1893	ATLAS MUTUAL, Boston.....1891. John A. Pray, Pres., Arthur F. Jones, Sec.	201,098	1,001,170	241,424	960,844	—40,326	297,516	298,340	185,956	.....	46,893	232,849
1892		59,174	359,367	62,556	355,985	—3,382	120,732	121,139	37,175	.....	24,093	61,268
1893	ATTLEBOROUGH MUTUAL, Attleborough.....1844. Joseph W. Capron, Pres., E. R. Read, Sec.	27,340	21,739	7,274	41,805	20,066	2,257	3,858	4,957	.....	646	5,603
1892		27,902	20,892	5,304	43,550	22,058	2,370	4,407	697	.....	683	1,380
1891		25,751	20,734	5,654	40,831	20,097	2,514	3,820	2,930	.....	883	3,813
1890		26,365	20,878	5,921	41,322	20,444	1,966	3,356	1,017	.....	407	1,424
1889		22,586	20,221	6,096	36,771	16,550	1,869	2,971	1,021	.....	429	1,450

* For Massachusetts companies amounts given in this column are contingent premiums. † Includes \$31,022 paid for investments. ‡ Began business in June, 1892.

g Includes \$10,280 paid for investments. — Impairment.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year of Organization	Cash Admitted Assets.	Amount of Deposit Notes.*	Total Liabilities.	Surplus, Including Deposit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
MASSACHUSETTS—Continued.												
BARNSTABLE CO. MUTUAL, Yarmouthport . . . 1833.	1893	\$88,005	\$355,284	\$59,269	\$84,000	\$28,736	\$31,053	\$34,677	\$7,312	\$21,202	\$6,284	\$34,888
Simson Atwood, Pres., Frank Thacher, Sec.	1892	94,735	343,801	57,845	380,691	36,890	28,379	32,807	14,526	19,464	6,279	20,269
	1891	600	333,115	55,568	384,147	51,032	29,726	34,560	6,493	21,385	6,784	34,602
	1890	107,927	325,518	54,308	379,137	53,619	35,593	40,167	4,124	25,464	7,417	37,025
	1889	110,970	315,993	54,705	373,268	57,395	31,750	36,628	2,150	21,669	5,686	29,505
BAY STATE MUTUAL, West Gardner . . . 1893.	1893	5,779	8,048	5,170	8,657	609	8,138	8,138	1,282	.....	2,022	3,394
L. A. Greenwood, Pres., Ralph W. Black, Sec. Blake & Taylor, Gen. Agts., Boston.												
BERKSHIRE MUTUAL, Pittsfield . . . 1895.	1893	111,782	112,986	58,285	166,483	53,497	27,536	32,878	6,705	12,855	7,852	27,412
J. L. Peck, Pres., J. M. Stevenson, Sec.	1892	110,933	105,200	53,587	162,546	57,346	27,536	29,952	7,011	10,531	6,974	24,516
	1891	104,782	97,349	49,230	152,901	55,552	22,917	27,801	5,955	10,851	6,731	23,537
	1890	101,694	91,258	49,473	143,479	52,221	24,044	28,698	10,721	11,991	6,487	29,199
	1889	100,965	86,154	43,693	143,426	57,272	20,088	24,589	4,580	8,814	5,991	19,295
BOSTON MANUFACTURERS MUTUAL, Boston . . 1850.	1893	784,900	4,251,430	426,646	4,609,684	338,254	848,791	881,332	199,543	623,378	68,452	891,373
E. Atkinson, Pres., Francis E. Robinson, Sec.	1892	794,720	4,010,189	495,645	4,399,264	389,075	788,736	822,166	65,927	600,699	67,974	734,600
	1891	711,177	3,844,819	396,944	4,159,052	314,233	766,361	796,002	285,659	482,024	62,731	830,414
	1890	735,890	3,826,822	384,576	4,178,136	351,314	762,729	792,273	89,474	570,013	58,541	718,028
	1889	681,323	3,795,310	377,859	4,068,781	338,254	758,316	786,457	250,456	546,740	53,369	634,571
CAMBRIDGE MUTUAL, Cambridgeport . . . 1833.	1893	231,126	222,021	122,284	330,863	108,849	67,276	70,696	24,317	29,020	26,257	79,594
D. W. Hyde, Pres., Alfred L. Barbour, Sec.	1892	220,454	201,228	103,482	327,200	125,972	62,646	74,759	13,471	24,311	23,432	61,214
	1891	218,163	180,605	94,614	324,154	123,549	51,484	62,346	15,712	21,743	19,299	50,754
	1890	211,738	164,097	87,048	288,787	124,690	49,416	60,537	22,495	21,214	17,768	61,477
	1889	218,426	151,717	82,956	287,187	135,470	49,057	50,709	8,050	17,871	15,926	41,847
CHINA MUTUAL (Marine), Boston . . . 1846.	1893	255,683	.....	143,542	.....	112,141	274,645	281,661	276,252	.....	44,141	320,393
E. A. Poole, Pres., W. H. Lord, Sec.	1892	325,952	.....	143,925	.....	252,027	263,905	275,300	264,122	.....	49,501	313,023
	1891	449,636	.....	152,847	.....	296,769	252,927	267,660	298,044	.....	40,138	347,482
	1890	422,740	79,128	150,021	6 272,719	401,989	417,571	331,276	331,276	6 30,997	67,106	428,479
	1889	422,199	198,876	144,605	6 476,470	6 277,594	310,044	380,172	345,378	6 56,704	72,841	474,923
CITIZENS MUTUAL, Boston . . . 1846.	1893	347,992	345,333	174,668	518,717	173,384	92,971	100,035	18,917	53,969	27,874	100,780
H. C. Bigelow, Pres., T. Wallace Travis, Sec.	1892	344,990	332,533	169,558	507,284	174,751	82,791	98,276	19,483	43,416	26,641	89,540
	1891	337,042	323,994	161,323	496,713	172,719	60,972	75,959	17,434	33,611	21,920	72,965
	1890	331,397	163,226	162,092	492,092	168,171	64,080	79,436	20,914	33,986	22,390	77,193
	1889	329,221	318,838	161,359	486,700	167,862	67,447	83,400	13,562	34,086	21,437	69,079

* For Massachusetts companies amounts given in this column are contingent premiums. † Includes outstanding scrip. ‡ Paid for redemption of and interest on scrip.

1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	1000	999	998	997	996	995	994	993	992	991	990	989	988	987	986	985	984	983	982	981	980	979	978	977	976	975	974	973	972	971	970	969	968	967	966	965	964	963	962	961	960	959	958	957	956	955	954	953	952	951	950	949	948	947	946	945	944	943	942	941	940	939	938	937	936	935	934	933	932	931	930	929	928	927	926	925	924	923	922	921	920	919	918	917	916	915	914	913	912	911	910	909	908	907	906	905	904	903	902	901	900	899	898	897	896	895	894	893	892	891	890	889	888	887	886	885	884	883	882	881	880	879	878	877	876	875	874	873	872	871	870	869	868	867	866	865	864	863	862	861	860	859	858	857	856	855	854	853	852	851	850	849	848	847	846	845	844	843	842	841	840	839	838	837	836	835	834	833	832	831	830	829	828	827	826	825	824	823	822	821	820	819	818	817	816	815	814	813	812	811	810	809	808	807	806	805	804	803	802	801	800	799	798	797	796	795	794	793	792	791	790	789	788	787	786	785	784	783	782	781	780	779	778	777	776	775	774	773	772	771	770	769	768	767	766	765	764	763	762	761	760	759	758	757	756	755	754	753	752	751	750	749	748	747	746	745	744	743	742	741	740	739	738	737	736	735	734	733	732	731	730	729	728	727	726	725	724	723	722	721	720	719	718	717	716	715	714	713	712	711	710	709	708	707	706	705	704	703	702	701	700	699	698	697	696	695	694	693	692	691	690	689	688	687	686	685	684	683	682	681	680	679	678	677	676	675	674	673	672	671	670	669	668	667	666	665	664	663	662	661	660	659	658	657	656	655	654	653	652	651	650	649	648	647	646	645	644	643	642	641	640	639	638	637	636	635	634	633	632	631	630	629	628	627	626	625	624	623	622	621	620	619	618	617	616	615	614	613	612	611	610	609	608	607	606	605	604	603	602	601	600	599	598	597	596	595	594	593	592	591	590	589	588	587	586	585	584	583	582	581	580	579	578	577	576	575	574	573	572	571	570	569	568	567	566	565	564	563	562	561	560	559	558	557	556	555	554	553	552	551	550	549	548	547	546	545	544	543	542	541	540	539	538	537	536	535	534	533	532	531	530	529	528	527	526	525	524	523	522	521	520	519	518	517	516	515	514	513	512	511	510	509	508	507	506	505	504	503	502	501	500	499	498	497	496	495	494	493	492	491	490	489	488	487	486	485	484	483	482	481	480	479	478	477	476	475	474	473	472
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MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year of Organization	Cash Admitted Assets.	Amount of Deposit Notes. ^a	Total Liabilities.	Surplus, including Deposit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
MASSACHUSETTS—Continued.												
FRANKLIN MUTUAL, Greenfield.....188a.	1803	\$24,181	\$35,115	\$31,566	\$27,730	-\$7,385	\$14,509	\$15,311	\$11,647	\$2,287	\$4,792	\$18,726
Nelson Burrows, Pres., John D. Bowler, Sec.	1802	25,814	32,769	26,428	33,384	615	14,841	15,541	8,361	2,775	5,136	16,272
	1801	22,970	32,481	21,459	33,801	1,590	12,546	13,013	11,581	2,349	4,205	18,135
	1800	26,092	31,522	22,540	35,065	3,543	11,648	12,313	8,808	1,893	3,856	14,557
	1889	23,910	29,572	19,366	34,096	4,524	10,666	11,374	7,959	1,254	3,444	12,655
HAMPSHIRE MUTUAL, Northampton.....1890.	1803	49,886	60,355	30,363	79,878	19,523	13,141	15,390	6,399	6,176	3,228	15,803
Chas. N. Clark, Pres., Oliver Walker, Sec.	1802	51,389	60,082	30,159	81,222	21,420	11,490	13,709	6,226	4,521	3,190	13,737
	1801	49,669	58,165	29,201	78,693	20,468	10,752	13,027	6,447	4,384	3,034	13,865
	1800	49,710	56,705	27,386	77,366	20,681	10,999	13,505	12,204	4,292	3,126	19,682
	1889	55,756	54,852	28,232	82,376	27,524	11,732	14,199	6,221	4,362	3,214	13,797
HINGHAM MUTUAL, Hingham.....1866.	1803	387,003	387,397	197,457	576,853	189,546	88,530	105,912	23,878	54,515	19,285	97,678
Amos Bates, Pres., Henry W. Cushing, Sec.	1802	385,557	377,059	192,514	570,102	193,043	116,228	133,370	22,945	73,373	23,331	119,649
	1801	367,688	370,508	186,638	548,158	178,050	86,308	103,884	26,803	52,761	18,228	97,792
	1800	361,931	365,979	191,910	536,000	170,021	86,902	103,884	19,394	34,149	14,054	67,597
	1889	356,699	360,273	187,332	539,640	169,367	60,701	77,768	20,557	35,273	14,337	70,167
HOLYOKE MUTUAL, Salem.....1843.	1803	841,518	539,023	277,277	1,109,264	*564,241	152,495	193,095	56,646	70,212	52,756	179,614
Chas. H. Price, Pres., Walter L. Harris, Sec.	1802	846,559	500,023	257,890	1,080,072	*588,660	141,094	185,118	52,575	78,655	42,482	173,712
	1801	838,787	520,070	253,990	*108,858	*584,788	145,499	188,354	60,800	70,341	43,461	174,602
	1800	827,713	483,693	244,563	*106,643	*583,190	144,025	187,347	59,537	58,593	56,444	173,484
	1889	823,260	463,531	234,674	*105,117	*588,586	139,018	182,264	64,624	50,417	56,193	173,234
INDUSTRIAL MUTUAL, Boston.....1890.	1803	71,257	476,976	65,587	482,646	5,670	87,552	90,137	42,388	27,282	9,861	79,631
H. N. Daggett, Pres., Benj. Tait, Sec.	1802	50,442	280,048	34,805	302,225	21,637	50,047	52,044	3,556	19,884	4,308	27,748
	1801	25,974	187,228	19,026	194,176	6,948	30,651	31,597	7,322	5,792	3,010	16,124
	1800	11,225	64,756	6,511	65,470	4,714	12,951	12,974	.....	.....	504	504
LOWELL MUTUAL, Lowell.....189a.	1803	100,151	76,393	40,233	136,311	59,918	23,495	30,028	11,063	8,990	9,575	29,628
J. C. Abbott, Pres., E. T. Abbott, Sec.	1802	105,090	68,933	35,819	138,144	69,211	20,670	25,576	4,802	6,797	9,537	21,136
	1801	97,053	61,627	31,491	127,259	65,568	21,262	26,130	8,038	6,844	9,141	24,093
	1800	68,556	54,239	27,653	125,142	70,903	17,972	22,824	3,021	5,476	8,360	16,857
	1889	95,093	46,595	23,910	117,688	71,183	14,633	20,879	5,281	5,253	7,615	18,149
LYNN MUTUAL, Lynn.....1828.	1803	69,353	52,834	13,822	110,295	55,461	4,736	8,008	546	4,548	2,932	8,026
Geo. S. Sargeant, Pres., E. H. Johnson, Sec.	1802	71,750	52,492	13,292	110,950	58,458	4,584	8,008	1,186	4,309	2,932	8,280
	1801	71,516	51,994	13,061	110,449	58,455	5,400	8,748	1,67	4,468	2,971	7,666
	1800	69,688	50,155	12,557	107,286	57,131	5,187	9,442	1,051	4,791	2,914	8,756
	1889	68,934	47,669	12,024	104,579	56,910	6,017	9,890	5,147	5,567	3,042	13,756

* Includes \$100,000 guaranty fund. ^a For Massachusetts companies amounts given in this column are contingent premiums. ^c Company does a use and occupancy business; began business May, 1890.

MASACHUSETTS MUTUAL, Boston 1872. C. B. Cummings, Pres., J. M. Corbett, Sec.	1803 1802 1801 1800 1889 1884	304,633 323,573 320,538 340,700 347,969	182,214 170,022 165,966 163,940 160,816	95,507 92,031 87,109 86,645 84,034	391,340 407,634 404,659 417,995 424,751	200,126 231,548 239,393 234,055 263,935	66,724 40,089 30,081 28,131 32,978	80,988 54,573 47,907 45,854 48,284	28,289 12,228 17,035 20,646 19,844	28,210 22,000 20,646 19,844 20,175	25,326 22,429 20,927 19,518 19,713	81,825 56,657 58,608 48,594 47,496
MELROSE MUTUAL FIRE, Boston 1894. Frank E. Orcutt, Pres., H. E. Johnson, Sec., Westgate & Johnson, Mgrs.	1803 1802 1801 1800 1889 1884	266,676 295,962 294,993 291,150 297,371	346,155 340,478 332,147 325,971 319,129	182,166 178,818 173,419 170,994 177,119	430,665 457,622 453,721 446,133 439,361	84,510 117,144 121,574 120,162 120,252	98,858 103,025 104,077 98,329 86,576	110,661 115,884 117,290 112,254 100,849	67,805 41,048 41,201 53,285 44,411	38,450 42,572 39,540 30,641	28,141 27,617 27,360 20,431 24,976	134,396 113,171 111,233 119,250 100,028
MERCHANTS AND FARMERS MUT'L, Worcester 1846. J. D. Waaburn, Pres., E. B. Stoddard, Sec.	1803 1802 1801 1800 1889 1884	328,956 345,571 345,157 335,943 335,407	432,695 411,202 392,811 372,188 349,528	227,814 211,735 203,186 180,368 185,201	533,837 545,092 534,812 518,763 499,734	101,142 131,896 133,931 146,575 150,206	108,395 106,779 104,033 96,557 79,673	124,741 124,438 120,143 115,245 96,930	44,325 39,080 35,789 42,088 38,419	50,439 47,319 51,319 41,566 31,319	28,387 26,776 26,832 25,655 19,924	123,151 119,175 110,533 109,309 89,662
MERRIMACK MUTUAL, Andover 1828. Wm. S. Jenkins, Pres., J. A. Smart, Sec.	1803 1802 1801 1800 1889 1884	549,987 560,005 556,663 540,657 525,052	511,246 481,159 454,591 431,056 405,781	257,873 241,693 229,132 217,028 203,043	803,360 808,471 782,124 754,685 728,390	292,114 327,312 327,533 323,669 322,669	146,361 130,810 105,841 100,289 103,141	170,639 154,846 131,717 122,395 124,771	59,266 41,731 38,691 36,593 37,231	74,505 66,834 52,452 47,721 50,476	37,979 32,671 28,446 27,725 20,133	162,750 141,236 119,591 101,949 113,840
MIDDLESEX MUTUAL, Concord 1826. Geo. Heywood, Pres., R. F. Barrett, Sec.	1803 1802 1801 1800 1889 1884	16,310 16,131 16,827 19,491 19,238	19,803 27,361 22,661 19,413 17,424	10,292 15,777 13,820 11,413 11,675	25,821 27,749 25,668 27,491 24,987	6,018 354 3,007 8,078 7,563	8,870 13,282 8,613 9,424 6,414	20,631 13,830 9,178 9,400 7,199	14,554 7,460 7,358 5,001 2,450	716 2,136 1,894 1,400 247	4,273 3,927 2,880 2,666 1,714	19,543 13,532 12,132 9,067 4,411
MILFORD MUTUAL, Milford 1851. George L. Cooke, Pres., A. A. Jenkins, Sec., Frank A. Colley, Gen. Agt., Boston.	1803 1802 1801 1800 1889 1884	161,020 161,708 156,604 148,098 149,723	143,047 139,814 136,953 131,416 129,212	37,562 35,443 34,178 33,025 31,507	262,505 266,169 258,479 246,489 246,428	119,458 126,353 122,426 115,073 117,210	17,035 14,840 13,557 13,550 11,222	23,671 22,534 20,681 20,889 17,800	839 2,011 2,030 2,994 1,929	13,629 11,015 8,768 9,780 8,003	4,440 4,327 4,103 4,202 4,764	18,908 17,353 14,901 16,976 14,096
MUTUAL FIRE ASSURANCE, Springfield 1827. A. Rowe, Pres., F. R. Young, Sec.	1803 1802 1801 1800 1889 1884	63,720 66,268 70,046 62,155 59,200	15,719 14,945 14,449 13,421 12,206	8,476 7,858 7,438 6,942 6,577	70,963 73,335 74,957 68,694 64,835	55,244 58,410 59,608 55,213 54,669	3,805 2,828 2,812 3,134 2,960	6,527 5,122 5,370 5,178 4,873	2,521 1,220 1,254 1,35 284	1,872 593 528 482 573	3,209 2,331 2,587 1,250 1,209	7,602 3,044 4,369 1,867 2,066
MUTUAL PROTECTION, Boston 1861. A. Stone, Pres., G. H. Pendergast, Sec.	1803 1802 1801 1800 1889 1884	63,720 66,268 70,046 62,155 59,200	15,719 14,945 14,449 13,421 12,206	8,476 7,858 7,438 6,942 6,577	70,963 73,335 74,957 68,694 64,835	55,244 58,410 59,608 55,213 54,669	3,805 2,828 2,812 3,134 2,960	6,527 5,122 5,370 5,178 4,873	2,521 1,220 1,254 1,35 284	1,872 593 528 482 573	3,209 2,331 2,587 1,250 1,209	7,602 3,044 4,369 1,867 2,066

† Has a guaranty capital of \$500,000. § Includes dividends on guaranty capital. a For Massachusetts companies amounts given in this column are contingent premiums.

a Includes guaranty capital \$500,000.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year Began Business	Cash Admitted Assets.	Amount of Deposit Notes.*	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
MASSACHUSETTS—Continued.												
NEW ENGLAND MUTUAL, Boston......1894. John J. Whipple, Pres., R. D. Pratt, Sec., C. D. Fullerton and R. W. Black, Mgrs.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
NEWBURYPORT MUTUAL, Newburyport......1890. Amos Noyes, Pres., L. W. Brown, Sec.	1893	\$31,189	\$33,542	\$4,193	\$60,538	\$26,996	\$1,997	\$3,686	\$28	\$1,997	\$799	\$2,824
	1892	33,529	33,277	4,185	62,621	29,344	1,500	3,274	144	1,500	642	2,286
	1891	32,783	34,368	4,336	62,755	28,447	1,166	2,515	117	1,246	597	1,960
	1890	31,406	39,701	4,402	66,795	27,004	1,147	2,501	62	1,128	600	1,790
	1889	31,413	67,722	4,391	96,744	27,022	958	2,420	121	949	585	1,655
NORFOLK MUTUAL, Dedham......1825. J. W. Belcher, Pres., Elijah Howe, Jr., Sec.	1893	470,146	275,682	145,811	600,017	324,335	73,828	97,260	23,804	40,045	20,154	84,003
	1892	481,216	264,634	149,793	603,057	338,423	64,720	88,671	17,802	36,260	18,436	79,498
	1891	461,773	255,657	134,580	582,850	327,193	51,038	75,248	16,865	27,279	16,068	60,212
	1890	440,548	247,817	129,725	558,640	310,823	48,602	71,247	13,888	25,799	15,867	55,554
	1889	438,280	240,379	127,498	551,161	310,782	53,772	78,368	17,112	28,304	15,067	60,483
OLD COLONY MUTUAL, Boston......1894. Wm. E. Russell, Pres., Raymond Hayes, Sec., O'Brien & Russell, Mgrs.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PAPER MILL MUTUAL, Boston......1886. R. W. Toppin, Pres., W. H. H. Whiting, Sec.	1893	48,752	244,615	32,805	260,562	15,947	50,447	52,468	17,881	28,273	4,498	50,652
	1892	49,898	223,845	22,470	251,273	27,428	49,945	46,890	10,625	27,610	4,563	42,798
	1891	46,129	205,479	29,220	222,388	10,999	41,100	42,921	8,333	26,304	4,424	39,061
	1890	201,561	20,832	222,725	21,164	18,090	40,437	31,281	6,368	15,852	3,578	33,761
	1889	34,131	159,721	16,041	177,811	18,090	31,746	32,281	246	15,852	3,078	19,176
QUINCY MUTUAL, Quincy......1851. Chas. A. Howland, Pres., W. H. Fay, Sec.	1893	614,600	495,996	265,349	845,247	349,251	147,124	173,952	45,708	70,009	45,481	161,198
	1892	627,778	477,073	251,816	853,035	375,962	142,704	171,044	50,352	68,381	44,430	160,163
	1891	610,027	466,210	247,995	828,324	362,122	131,079	158,401	31,334	58,956	41,044	131,024
	1890	591,183	461,443	242,282	810,344	348,901	152,102	152,102	59,352	58,593	39,009	156,954
	1889	586,210	460,855	250,759	796,306	335,451	125,582	150,680	54,682	54,842	38,714	148,238
RUBBER MANUFACTURERS, Boston......1885. E. S. Converse, Pres., B. F. Taft, Sec.	1893	166,188	828,543	124,023	840,708	42,165	162,407	172,629	106,262	80,831	20,619	207,712
	1892	181,271	761,475	92,778	890,068	88,403	146,600	157,440	31,694	76,510	16,930	125,074
	1891	148,390	648,915	65,422	731,893	82,968	121,221	131,091	51,574	66,707	13,488	131,769
	1890	152,560	504,344	56,845	660,059	95,715	102,961	108,990	20,340	44,534	9,315	74,189
	1889	116,688	375,804	37,843	454,649	78,845	73,994	80,069	44,994	33,286	9,418	87,662

* For Massachusetts companies amounts given in this column are contingent premiums.

1893	SALEM MUTUAL FIRE INS. CO., Salem.....1898.	74,393	30,334	21,180	83,457	53,123	15,581	18,877	9,228	3,459	5,953	17,940
1894	S. A. Potter, Pres., Howard S. Porter, Sec.	71,719	22,050	12,776	86,093	58,043	12,372	15,283	3,171	2,892	4,412	10,475
1891		66,103	17,061	9,706	73,458	56,397	7,836	12,301	1,628	3,105	2,759	8,098
1890		63,516	15,778	8,949	70,345	54,597	4,625	7,686	1,442	1,618	2,368	5,614
1889		60,850	14,778	8,009	67,389	52,581	5,612	8,823		2,211	2,238	5,591
1893	SOUTH DANVERS MUTUAL, Peabody.....1899.	65,443	73,919	13,813	125,540	51,690	3,664	6,581	496	3,282	2,027	5,805
1892	Wm. P. Clark, Pres., Geo. M. Foster, Sec.	60,371	72,900	13,561	128,800	55,810	4,860	7,941	938	4,475	1,371	6,784
1891		68,491	71,462	12,940	126,833	55,351	3,005	5,825	730	2,786	1,319	4,835
1890		68,139	71,051	12,749	126,441	55,390	3,533	6,690	247	3,231	1,375	4,953
1889		66,717	70,582	12,592	124,707	54,125	2,892	5,674	775	2,682	1,333	4,790
1894	STANDARD MUTUAL, Boston.....1894.											
	Wm. B. Sewall, Pres., James B. Alden, Sec., Frank A. Colley, Mgr.											
1894	SUFFOLK MUTUAL FIRE, Boston.....1894.											
	B. K. Moore, Pres., F. L. Hatch, Sec., Jordan, Lovett & Co., Gen. Agts.											
1893	TRADEAS AND MECHANICS MUTUAL, Lowell..1848	657,347	575,375	289,748	942,974	367,599	166,417	201,660	93,098	70,112	45,740	208,950
1892		682,485	536,606	272,387	946,704	410,008	149,385	182,230	58,314	63,157	41,733	163,204
1891		647,480	495,714	248,494	834,700	398,986	140,256	177,399	46,360	54,201	38,393	142,870
1890	Levi Sprague, Pres., E. M. Tucke, Sec.	621,955	461,577	234,493	848,969	387,492	135,028	164,273	52,069	54,887	38,224	146,080
1889		609,255	425,468	213,602	812,121	386,653	116,075	143,634	37,825	47,559	32,545	117,929
1894	TREMONT MUTUAL, Boston.....1894.											
	Theophilus King, Pres., C. E. Dunham, Sec., Henry N. Baker, Mgr.											
1893	WACHUSETT MUTUAL, Fitchburg.....1891.	12,480	47,396	34,402	25,474	—	39,129	39,451	28,861	1,467	14,438	44,766
1892		17,396	29,189	16,363	30,222	1,033	25,763	25,763	6,271	522	8,194	14,987
1891	Henry A. Goodrich, Pres., F. A. Curtier, Sec., O'Brien & Russell, Mgrs.	6,620	10,680	5,798	11,502	822	10,733	10,733	698		3,475	4,113
1894	WESTERN MASS. MUTUAL, Springfield.....1894.	30,440	100,814	23,047	108,207	7,393	33,605	33,605				
	E. Morgan, Pres., Wm. G. Hall, Sec., Chas. E. Stickney, Mgr., Blake & Taylor, Gen. Agts., Boston.											
1893	WORCESTER MANUFACTURERS MUT., Worcester, '55	253,889	1,221,226	122,650	1,352,465	131,239	241,266	253,590	70,723	181,874	15,867	268,464
1892		275,163	1,144,620	116,412	1,393,371	158,751	226,456	236,721	15,041	193,012	15,207	223,260
1891		259,839	1,095,172	115,114	1,239,917	144,745	220,222	233,292	47,469	172,326	15,459	215,254
1890		241,182	1,041,535	105,652	1,177,065	135,530	207,984	221,396	30,631	175,737	14,096	220,464
1889		241,115	999,782	103,585	1,137,312	137,530	202,057	212,479	36,444	163,044	12,632	212,720
1893	WORCESTER MUTUAL, Worcester.....1823.	670,031	557,491	287,046	940,476	382,985	140,940	173,755	40,946	81,417	40,363	162,726
1892		661,129	545,471	280,934	925,646	380,175	134,690	167,051	43,185	75,181	36,826	155,202
1891	John A. Fayerweather, Pres., R. F. Upham, Sec.	648,455	528,508	270,156	906,807	378,299	112,346	144,340	40,677	64,102	33,876	138,055
1890		643,794	517,366	270,658	890,502	373,136	102,281	141,277	37,971	61,331	31,259	130,561
1889		633,663	509,378	266,205	876,836	367,458	121,567	151,899	40,607	67,817	33,064	141,488

* For Massachusetts companies amounts given in this column are contingent premiums. †, April 17, 1894. — Impairment.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year of Incorporation	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
MICHIGAN.												
CENTRAL MICHIGAN MUTUAL, Lansing†.....1891.	1893											
John Holbrook, Pres., H. N. Lawrence, Sec.	1892											
MICHIGAN MILLERS MUTUAL, Lansing.....1881.	1893	\$76,561	\$265,985	\$18,847	\$323,699	\$57,714	\$64,607	\$70,232	\$62,322		\$10,556	\$91,828
Geo. W. Jenks, Pres., A. T. Davis, Sec.	1892	76,334	178,869	15,132	240,951	61,182	61,839	69,810	24,446		39,710	64,156
	1891	47,178	124,968	8,861	165,223	40,317	51,409	63,169	52,831		18,391	71,222
	1890	58,487	108,637	39,499	127,625	18,988	73,984	77,334	53,445		16,741	70,186
	1889	51,840	104,668	16,658	139,790	35,182	48,042	49,311	17,153		7,204	24,357
SAGINAW VALLEY, East Saginaw.....1890.	1893	14,979	80,930	21,867	74,042	6,888	38,948	39,076	17,696		12,050	35,746
W. C. McClure, Pres., J. P. Sheridan, Sec.	1892	12,843	71,648	18,021	66,470	5,178	23,557	23,557	9,693		10,881	17,844
	1891	9,955	60,884	16,555	50,284	10,600	14,784	17,784	10,835		10,718	21,553
	1890	10,165	72,054	18,662	63,557	8,497	26,329	30,762	8,559		12,447	21,006
MINNESOTA.												
ALMA MUTUAL, Wiltona.....1894.	1894											
R. Lees, Pres., E. J. Gantz, Sec.												
MILLERS AND MANUF. MUT., Minneapolis.....1881.	1893	201,816	414,012	178,126	437,702	23,690	147,475	149,951	68,286	\$16,548	42,803	127,637
E. R. Barber, Pres., C. B. Shove, Sec.	1892	183,712	385,093	178,341	391,464	5,371	144,663	147,805	53,332	34,023	34,749	122,104
	1891	174,123	308,128	170,154	312,097	3,969	167,828	181,972	49,533	28,031	108,706	179,270
	1890	91,840	293,842	91,526	294,156	314	134,281	142,852	76,356	23,867	55,272	155,435
	1889	104,761	300,875	111,405	294,231	6,644	152,465	152,465	68,713	15,176	64,830	148,719
RETAIL LUMBERMENS, Minneapolis.....1894.	1894											
D. R. Ewing, Pres., Willard G. Hollis, Sec.												
WESTERN MUTUAL FIRE, Albert Lea.....1894.	1894											
W. F. Gage, Mgr.												
MISSOURI.												
AMERICAN GUARANTY FUND MUT., St. Louis.....1892.	1893	\$3,022	19,627	1,441	71,208	* 51,581	5,393	5,393	2,745		2,013	4,728
J. E. Werth, Pres., C. A. Windmuller, Sec.	1892	* 52,385	3,248	1,114	54,519	* 51,271	2,854	2,854	41		427	468
FRANKLIN, St. Louis.....1859.	1893	34,067	362,973	11,045	385,995	23,022	19,630	21,140	6,310		10,312	16,622
Henry Meter, Pres., Emil Heintz, Sec.	1892	29,587	367,402	11,073	385,916	18,514	39,799	40,423	26,196		10,267	36,403
	1891	25,781	388,059	20,599	393,241	5,182	17,031	18,547	4,614		9,536	14,150
	1890	22,559	384,405	9,209	397,755	13,350	18,952	21,530	6,845		15,273	22,118
	1889	19,871	373,420	8,491	384,800	11,380	20,274	20,874	10,084		10,038	20,122

* Includes guaranty fund with insurance department.
reinsurance not collectible, \$203. † Includes contingent, safety
and reserve funds, \$100,000.

† Organization incomplete.
‡ Includes \$6000 paid on loan.
§ Includes paid on bond, \$1000;
‡ Includes investments.

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and reserve funds, \$100,000.

† Organization incomplete.
‡ Includes \$6000 paid on loan.
§ Includes paid on bond, \$1000;
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‡ Includes paid on bond, \$1000;
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GERMAN MUTUAL, St. Louis. Jacob Gruen, Pres., W. K. Walther, Sec.	1893 1892 1891 1890 1889	18,362 11,689 54,869 54,756 59,615	209,485 200,493 119,146 85,761 48,821	9,407 8,871 9,392 189,715 6,997	218,440 212,311 164,083 189,715 101,439	8,955 2,818 45,477 54,618	19,074 8,952 16,302 12,824 17,864	3,192 3,879 2,557 398 2,026	8,554 11,574 8,922 10,345 7,169	11,746 15,453 11,439 10,743 9,195
HOPE MUTUAL, St. Louis. Frank Carter, Pres., Henry Schmidt, Sec.	1893 1892 1891 1890 1889	30,691 34,960 20,155 25,408 22,853	326,744 312,442 316,448 303,332 288,752	12,023 9,914 7,000 6,158 4,670	345,412 337,488 309,603 322,586 306,935	18,668 25,046 13,155 12,369 18,183	14,404 32,443 12,974 17,012 25,675	21,040 37,003 17,772 2,980 29,230	15,070 14,997 13,392 12,081 11,267	25,637 21,870 22,533 15,001 15,384
JEFFERSON, St. Louis. H. Eisenhardt, Pres., C. R. Fritsch, Sec.	1893 1892 1891 1890 1889	71,618 70,534 62,266 59,228 53,775	411,599 400,684 393,853 346,395 289,422	20,149 28,891 32,695 24,392 23,487	454,068 451,397 423,444 383,161 319,710	49,469 41,643 29,391 34,836 30,288	26,147 28,878 26,341 28,068 28,469	31,744 34,342 34,117 31,677 34,448	23,854 16,895 29,933 26,445 22,011	30,572 30,111 36,425 30,416 35,766
LACLEDE MUTUAL F. AND M., St. Louis. R. W. Powell, Pres., J. C. Bury, Jr., Sec.	1893 1892 1891 1890 1889	23,091 27,017 30,271 24,823 30,343	205,178 200,288 215,620 237,075 239,884	3,637 3,707 3,160 3,122 3,042	224,632 232,598 242,731 258,776 267,185	19,454 23,310 27,111 28,068 27,301	4,997 8,320 18,092 7,357 8,043	8,541 8,320 21,528 7,357 9,594	7,595 7,828 11,326 8,614 9,178	10,232 10,917 16,666 11,925 12,257
ST. CHARLES MUTUAL, St. Charles. J. P. Hoehn, Pres., H. J. Schoeneich, Sec.	1893 1892 1891 1890 1889	105,491 104,008 97,162 93,647 89,845	235,927 221,459 200,515 196,499 188,999	1,424 2,835 1,563 1,523 1,799	339,994 322,632 305,114 288,553 277,045	104,067 101,173 95,599 92,124 88,046	5,391 5,134 4,367 4,817 6,012	11,680 10,833 11,012 13,018 12,956	4,661 3,821 4,543 3,859 4,819	11,040 4,904 7,856 7,047 8,104
WASHINGTON MUTUAL, St. Louis. Philip Gruen, Pres., Louis J. Behrens, Sec.	1893 1892 1891 1890 1889	75,222 77,310 58,439 60,021 59,082	344,901 349,395 373,682 367,917 358,232	10,729 8,912 13,073 8,135 8,570	409,464 417,793 419,048 419,803 408,744	64,563 66,398 45,366 51,886 50,512	18,885 42,183 14,207 17,095 18,922	23,057 44,932 7,166 19,545 21,023	13,296 12,735 11,908 12,798 12,146	25,152 26,337 19,074 18,683 23,393
FARMERS UNION, Grand Island. G. P. Watson, Pres., W. L. Willard, Sec.	1893	38,354	62,016	1,636	98,674	36,658	9,663	12,046	6,515	11,814
NEW HAMPSHIRE. CHESHIRE COUNTY MUTUAL, Keene. J. H. Elliott, Pres., W. H. Elliott, Sec.	1893 1892 1891 1890 1889	44,586 46,443 38,819 34,431 28,479	42,084 39,261 36,646 25,881 29,968	46,772 34,022 20,979 21,014 22,858	39,898 51,682 54,486 39,228 35,569	— 2,186 12,421 17,820 13,417 5,621	57,487 38,176 19,640 17,599 22,404	58,051 40,282 20,721 18,753 33,157	17,619 9,884 5,140 4,057 5,320	60,799 34,504 16,770 13,395 13,632

— Impairment.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year of Organization	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabilities.	Surplus, Including Deposit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
NEW HAMPSHIRE—Continued.												
CONCORD MUTUAL, Concord. ....1885.	1893	\$34,340	\$50,302	\$14,663	\$69,979	\$19,677	\$18,574	\$19,984	\$11,853	\$2,099	\$4,227	\$18,179
Sam'l C. Eastman, Pres., L. C. Merrill, Sec.	1892	34,981	43,241	13,411	64,311	21,570	14,492	16,280	9,415	1,845	3,593	14,853
	1891	34,387	40,542	11,548	61,381	20,890	13,152	14,355	5,945	1,708	3,122	10,845
	1890	29,654	40,558	10,869	59,343	18,785	13,888	15,388	9,154	1,085	3,292	14,431
	1889	29,150	45,526	15,487	59,188	13,662	10,870	17,878	8,322	966	3,840	13,128
MAN'FAS AND MERCHANTS MUT., Concord. ....1885.												
E. G. Leach, Pres., Lyman Jackson, Sec.	1893	85,943	119,063	64,416	140,590	21,597	29,330	96,048	54,261	7,959	27,320	89,550
	1892	82,026	107,991	48,749	141,268	33,277	64,373	67,733	30,693	6,491	16,857	59,081
	1891	77,088	103,929	44,475	136,542	32,613	52,912	56,129	24,876	6,411	14,597	45,884
	1890	67,748	97,762	39,021	126,599	28,727	59,952	63,554	43,425	5,996	13,021	62,442
	1889	65,783	86,698	37,936	114,545	27,847	52,061	54,858	30,250	.....	13,143	43,393
NEW JERSEY.												
BERGEN COUNTY FARMERS MUT., Oradell. ....1849.												
A. C. Holdrum, Pres., Elmer Blauvelt, Sec.	1893	15,253	38,817	† 131	53,919	15,102	2,108	2,617	6,082	.....	1,096	7,118
	1892	19,764	46,699	† 160	66,303	19,604	2,486	3,044	5,427	.....	1,154	6,581
	1891	23,761	52,806	† 176	76,391	23,585	4,421	5,022	2,117	.....	1,764	3,881
	1890	22,770	53,884	† 176	76,478	22,594	3,141	3,722	2,791	.....	1,964	4,755
	1889	22,874	53,594	† 1,177	75,261	21,697	5,231	5,807	1,794	.....	1,965	3,799
BURLINGTON CO. ASSOCIATION, Medford. ....1821.												
Charles Stokes, Pres., Henry P. Thorn, Sec.	1893	121,753	.....	† 2,500	.....	119,253	2,334	9,084	13,709	.....	2,424	16,133
	1892	126,317	.....	(†)	.....	126,317	2,493	9,296	9,399	109	1,872	11,290
	1891	128,910	.....	(†)	.....	128,910	733	7,193	1,548	1,695	2,180	5,383
	1890	125,854	.....	† 1,083	.....	124,771	1,443	9,024	7,493	2,117	2,229	11,819
	1889	137,338	.....	† 1,000	.....	136,338	4,132	10,437	3,600	.....	2,533	6,133
CUMBERLAND MUTU'L, Bridgeton. ....1844.												
David P. Elmer, Pres., Chas. S. Fitblian, Sec.	1893	32,345	867,271	† 537	899,079	31,868	17,804	18,828	19,550	.....	2,966	22,516
	1892	35,994	880,231	† 5,663	910,562	30,331	16,588	17,964	17,175	.....	3,224	20,399
	1891	36,465	900,250	† 4,022	934,653	34,493	15,981	17,248	8,368	.....	2,793	11,161
	1890	32,339	919,340	(†)	932,399	32,339	17,719	18,727	9,482	.....	2,863	12,352
	1889	27,649	1,011,206	† 520	1,038,335	27,199	10,586	17,119	5,146	.....	3,019	8,165
ESSEX COUNTY MUTUAL, Bloomfield. ....1844.												
Jos. K. Oakes, Pres., Joseph H. Dodd, Treas.	1893	20,809	34,850	(†)	55,659	20,809	3,467	4,609	9,082	.....	3,179	12,261
	1892	30,836	42,712	† 1,500	72,048	20,336	8,613	14,185	141	.....	2,145	10,439
	1891	22,331	44,898	(†)	67,169	22,331	4,465	8,080	920	.....	5,649	6,569
	1890	19,968	56,932	(†)	76,900	19,968	5,203	5,929	384	.....	2,272	2,656
	1889	16,707	59,764	(†)	76,471	16,707	4,857	6,016	1,822	.....	2,404	4,226

† No provision for reserve.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year ended	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
NEW JERSEY—Continued.												
UNION COUNTY MUTUAL, Elizabeth.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
A. G. Pool, Pres., J. N. Burger, Vice-Pres.												
UNION MUTUAL, Jersey City.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
T. M. Gopsall, Pres., B. F. Palodrie, Sec.												
NEW YORK.												
ATLANTIC MUTUAL (Marine), New York.....	1893	11,728,390	.....	3,426,780	.....	18,301,450	3,119,481	3,701,040	1,859,347	* 413,824	\$467,893	2,740,974
J. D. Jones, Pres., J. H. Chapman, Sec.	1892	12,156,940	.....	3,638,322	.....	18,318,018	3,421,994	3,693,987	1,342,822	* 416,146	481,041	2,240,009
	1891	11,895,181	.....	3,636,314	.....	18,258,867	3,334,430	3,881,412	1,663,269	* 413,971	476,459	2,553,689
	1890	12,108,772	.....	3,900,499	.....	18,208,343	3,486,211	4,012,764	1,358,144	* 404,706	455,887	2,218,537
	1889	11,783,576	.....	3,388,704	.....	18,394,872	3,657,993	4,350,184	2,593,939	* 416,047	443,342	3,363,328
BUFFALO MUTUAL FIRE, Buffalo.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
J. Adam Lantz, Pres., C. Hagen, Sec.												
DUTCHESS COUNTY MUTUAL, Poughkeepsie.....	1893	120,154	59,695	113,823	59,024	6,399	132,678	137,432	93,283	.....	37,774	131,057
L. H. Vail, Pres., J. J. Graham, Sec.	1892	133,131	77,788	126,176	84,743	6,955	112,044	119,576	117,764	.....	49,319	227,103
	1891	238,546	103,772	235,897	106,421	2,619	235,747	243,197	176,888	.....	56,807	233,755
	1890	236,637	120,466	218,690	138,473	18,007	215,253	223,898	150,283	.....	55,244	205,527
	1889	223,359	156,879	208,281	171,957	15,078	207,790	219,048	183,519	.....	52,686	236,205
EAST RIVER MUTUAL, Long Island City.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alfred Wagstaff, Pres., A. T. Baldwin, Sec., Frank B. Hall, Gen. Mgr., New York.												
EQUITABLE MUTUAL, New York.....	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
John A. Nichols, Pres., A. H. Walton, Sec., James R. Skinner & Co., Managers.												
ERIE COUNTY MUTUAL, Buffalo.....	1893	285,110	133,465	38,068	380,507	247,042	41,788	55,244	13,309	.....	15,994	29,213
Mathias Rohr, Pres., Jos. M. Kertz, Sec.	1892	258,618	128,752	31,379	353,991	227,239	37,299	49,661	9,739	.....	13,627	23,376
	1891	222,262	122,946	28,686	320,528	203,582	33,999	45,405	12,209	.....	12,136	24,405
	1890	210,977	119,760	28,356	302,381	182,621	34,004	44,318	11,545	.....	11,548	23,093
	1889	189,604	112,869	33,628	268,845	155,976	40,136	48,861	10,518	.....	10,895	21,413

* Paid to scrip-holders.

† Includes outstanding scrip.

‡ Company reinsured about half its business in 1894.

[illegible]

‡ Includes outstanding scrip. § Reinsured in the Lancashire of Manchester December 15, 1891, and resumed business. a Guarantee capital, which is included also in surplus, exclusive of net cash; payments to policyholders include payments to scrip-holders. c Dividend scrip issued in 1883, 1884, 1885 and 1886 redeemed in cash July 1, 1886.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year begun business	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
NEW YORK—Continued.												
SUFFOLK COUNTY MUTUAL, Southold.	1893	\$51,800	\$318,686	\$3,337	\$367,149	\$4,453	\$5,595	\$7,861	\$1,285	.....	\$3,112	\$4,397
Jonathan B. Terry, Pres., S. F. Overton, Sec., Peconic.	1892	47,270	304,107	3,217	348,160	44,053	5,447	7,794	9,614	.....	2,864	12,476
	1891	50,886	297,479	3,185	345,180	47,701	5,539	7,766	1,789	.....	2,895	4,614
	1890	46,839	296,504	3,226	340,177	43,613	5,696	7,794	2,549	.....	2,761	5,310
	1889	43,576	290,572	3,135	331,913	40,441	5,676	7,761	5,675	.....	2,901	8,576
SYRACUSE MUTUAL, Syracuse.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Milton Clark, Manager.												
UNITED STATES LLOYDS, New York.	1893	915,557	.....	283,953	.....	631,604	408,022	541,891	330,809	\$50,000	114,811	515,600
Higgins, Cox & Barrett, Attorneys.	1892	868,721	.....	249,687	.....	619,034	593,069	676,028	444,451	50,000	128,839	623,290
	1891	881,201	.....	307,051	.....	574,150	646,528	728,641	571,923	50,000	111,528	733,451
	1890	815,506	.....	221,665	.....	593,841	591,564	639,062	453,467	.....	96,219	549,686
	1889	790,274	.....	220,653	.....	569,621	536,847	599,097	433,831	52,223	52,534	538,588
NORTH DAKOTA.												
JAMES RIVER VALLEY MUT., Jamestown.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Geo. Kurtz, Pres., J. B. Fried, Sec.												
OHIO.												
ÆTNA FIRE ASSOCIATION, Cincinnati.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chas. F. Taylor, Pres., W. L. Perkins, Sec.												
CENTRAL MANUFACTURERS MUT., Van Wert.	1893	71,209	248,790	29,250	290,749	41,959	48,902	50,928	24,583	* 5,228	12,505	42,316
J. S. Brumback, Pres., F. W. Purmort, Sec.	1892	58,827	179,935	17,112	212,650	41,715	33,557	35,231	15,763	* 2,917	8,311	26,997
	1891	49,948	110,214	18,018	142,144	31,930	19,616	20,965	9,022	363	11,268	20,653
	1890	49,880	180,048	29,550	200,378	20,330	46,783	48,226	16,910	* 5,731	15,157	37,798
	1889	38,322	174,045	25,455	186,912	12,867	50,144	51,235	27,496	* 6,701	17,417	51,614
CINCINNATI EQUITABLE, Cincinnati.	1893	454,317	.....	225,597	.....	228,730	7,009	31,625	2,557	.....	9,042	11,599
Wm. Woods, Pres., T. S. Goodman, Sec.	1892	447,006	.....	225,245	.....	221,761	9,314	32,156	11,888	.....	8,227	21,115
	1891	447,390	.....	225,071	.....	222,319	9,568	39,244	21,592	.....	8,591	30,183
	1890	459,952	.....	222,213	.....	228,739	11,494	36,460	7,630	.....	8,970	16,600
	1889	454,048	.....	221,034	.....	231,614	12,423	32,393	3,224	.....	8,838	12,062
GERMAN AMERICAN MUTUAL, Toledo.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wm. T. Meyers, Pres., B. F. Culbertson, Sec.												

* Includes interest to scripsholders.

GERMAN MUTUAL, Cincinnati.....1858. Geo. F. Bransche, Pres., H. A. Rattermann, Sec.	1893 1892 1891 1890 1889	387,864 380,550 371,214 373,424 365,011	759,623 743,701 734,424 718,739 711,301	96,173 95,060 93,693 91,918 90,849	1,042,314 1,028,191 1,010,005 999,992 985,463	291,691 285,490 277,581 281,253 274,162	48,284 38,359 40,320 40,005 44,574	73,449 68,555 57,994 57,260 61,101	13,906 9,333 8,995 11,331	* 21,708 16,600 17,445 17,594 19,577	21,351 19,207 18,935 18,696 17,657	† 57,360 † 45,366 53,319 45,295 48,565
HOME INSURANCE ASS'N., Mt. Vernon.....1894. J. M. Armstrong, Pres., E. E. Cunningham, Sec.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KNOX COUNTY MUTUAL, Mt. Vernon.....1838. Wm. McClelland, Pres., H. H. Greer, Sec.	1893 1892 1891 1890 1889	103,009 103,716 104,099 92,499 90,549	1,257,359 1,186,448 1,166,601 1,160,741 1,199,421	9,082 23,022 20,205 21,953 22,390	1,351,286 1,267,132 1,250,495 1,231,287 1,197,580	93,927 80,584 83,894 76,546 68,159	47,018 50,093 44,528 46,351 58,572	48,443 51,850 46,529 48,311 60,646	31,136 30,855 31,911 28,690 31,885	.....	24,330 17,603 16,711 16,720 16,587	55,466 48,458 38,522 45,410 48,412
NORTHWESTERN MUTUAL FIRE, Toledo.....1894. E. W. Gray, Mgr.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
OHIO DRUGGISTS MUTUAL FIRE.....1894.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
OHIO FARMERS, Leroy†.....1848. Jas. C. Johnson, Pres., O. S. Wells, Sec.	1893 1892 1891 1890 1889	1,099,584 1,259,060 1,774,797 1,654,231 1,561,009	..... ..... ..... ..... .....	991,083 1,242,742 1,424,107 1,233,870 1,155,572	..... ..... ..... ..... .....	38,501 16,318 350,690 420,361 405,437	228,228 785,400 973,868 793,863 695,866	346,905 857,661 1,051,872 859,735 762,100	421,365 809,919 686,469 515,778 473,615	.....	222,867 480,493 286,569 250,175 204,199	644,232 1,290,322 946,978 705,953 677,814
OHIO MILLERS MUT., Canton.....1886. J. W. Hahn, Pres., John F. Clark, Sec.	1893 1892 1891 1890 1889	72,905 62,019 57,993 259,942 41,310	291,271 279,993 290,049 218,914 148,006	24,727 28,866 29,049 18,829 24,597	339,449 306,116 281,920 218,914 157,473	48,178 33,123 21,978 22,481 9,497	69,107 60,469 51,934 43,452 33,841	72,288 62,951 13,368 44,901 34,331	44,917 38,663 28,977 26,126 4,041	1,935 1,593 1,368 975 1,169	14,211 12,244 13,664 10,922 11,243	61,063 52,500 43,949 38,033 16,453
OHIO MUTUAL, Salem.....1896. Furman Gee, Pres., J. R. Vernon, Sec.	1893 1892 1891 1890 1889	28,822 22,096 22,158 19,411 18,823	634,560 611,696 654,543 707,586 769,789	15,378 15,802 12,793 22,734 26,834	648,014 617,990 663,908 704,269 761,778	13,454 6,294 9,305 — 3,323 — 8,011	42,367 45,313 51,021 55,986 57,422	42,549 45,452 51,107 56,003 57,493	25,096 32,866 32,018 38,787 41,296	146 116 206 218 536	12,413 12,410 13,920 13,800 14,772	37,655 45,362 46,150 52,825 56,544
RICHLAND COUNTY MUTUAL, Mansfield.....1851. J. H. Cook, Pres., R. Smith, Sec.	1893 1892 1891 1890 1889	85,674 88,871 86,986 82,521 72,312	1,285,683 1,318,696 1,375,393 1,417,182 1,422,490	10,344 28,954 28,147 27,619 26,969	1,361,013 1,378,553 1,434,142 1,472,084 1,467,833	75,330 59,917 58,839 54,922 45,343	62,443 77,020 68,289 69,483 72,410	65,005 78,829 70,339 72,218 75,045	49,417 51,464 42,624 40,816 46,477	377 456 273 441 348	22,012 23,978 23,132 22,972 23,332	71,896 75,868 66,029 64,229 70,157

* Includes interest to scripsholders. † Includes accrued interest on investments. ‡ Mutual company, but by special act of legislature does business on the cash plan only. — Impairment.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAME OF OFFICERS.	Year 1893 1892 1891 1890 1889	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
OHIO—Continued.												
ST. PETERS FIRE AID, Cleveland.....1879. John Kuch, Pres., Leo Steinbach, Sec.	1893 1892 1891 1890 1889	\$18,465 17,501 17,003 16,045 15,181	..... ..... ..... \$3,373 2,714	\$30 3 4 98	..... ..... \$19,414 17,797	\$18,435 17,501 17,000 16,041 15,083	..... ..... \$623 276 381 311	\$1,414 1,358 1,204 1,240 1,209	\$111 614 ..... ..... .....	..... ..... ..... ..... .....	\$338 349 276 381 311	\$449 953 276 381 311
SUN MUTUAL, Cincinnati.....1862. B. H. Lamping, Pres., F. W. Schneider, Sec.	1893 1892 1891 1890 1889	71,375 77,179 57,095 60,569 60,257	301,478 298,036 289,092 281,413 272,350	42,407 38,583 38,239 34,334 32,794	330,446 326,032 308,758 307,648 299,813	28,968 28,596 19,666 26,235 27,463	18,989 19,470 15,478 14,667 19,159	22,906 22,972 19,333 19,456 24,572	5,077 2,913 9,290 5,587 9,308	\$2,921 2,737 2,657 2,484 2,566	8,423 8,774 8,977 8,935 11,966	16,421 14,424 20,924 17,006 23,780
WOODWORKERS NAT'L MUTUAL, Mansfield....1894. S. N. Ford, Mgr.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PENNSYLVANIA.												
BUCKS CO. CONTRIBUTIONSHIP, Morrisville....1811. John Wildman, Pres., Wm. S. Mull, Sec.	1893 1892 1891 1890 1889	333,279 330,554 328,915 319,042 310,115	() () () () ()	67,064 67,018 66,884 66,511 65,731	..... ..... ..... ..... .....	265,315 263,536 262,031 252,531 244,384	2,405 2,509 2,929 2,417 1,386	20,520 38,537 42,039 17,987 15,890	1,104 9,937 3,235 442 4,374	4,971 5,618 5,787 5,832 5,604	2,847 2,815 1,398 2,519 1,893	134,922 142,371 136,065 8,793 11,801
CAMERIAN MUTUAL, Scranton.....1871. B. Hughes, Pres., B. E. Evans, Sec.	1893 1892 1891 1890 1889	29,841 28,112 25,898 26,959 25,794	83,906 82,314 79,494 82,131 78,858	() () () () ()	113,747 110,426 105,372 109,090 104,652	29,841 28,112 25,878 26,959 25,794	2,580 2,598 2,597 2,438 2,643	7,394 6,704 7,719 6,987 5,596	624 89 3,091 1,240 2,469	..... ..... ..... ..... .....	1,612 1,797 7,739 3,008 3,160	2,5786 2,8816 10,830 4,257 5,699
DELAWARE COUNTY MUTUAL, Media.....1839. C. R. Williamson, Pres. E. A. Price, Sec.	1893 1892 1891 1890 1889	70,253 69,742 67,596 63,064 59,347	214,408 221,881 220,312 251,605 263,202	19,936 18,761 19,169 18,637 18,750	274,725 282,862 287,739 306,052 313,799	60,317 60,981 58,427 54,427 50,597	13,055 13,257 14,192 15,134 10,238	15,710 18,053 19,408 25,495 19,005	11,566 10,858 9,024 11,051 11,015	256 441 293 521 501	3,746 3,266 3,441 16,101 17,227	25,568 24,665 12,758 27,673 28,743
EBENEZER MUTUAL, Ebenezzer.....1893. M. G. Sandles, Pres., J. N. Coleman, Sec.	1893	127	( )	.....	.....	127	253	253	.....	.....	.....	126
FARMERS, Bethlehem.....1832. A. H. Rauch, Pres., J. M. Leibert, Sec.	1893 1892 1891 1890 1889	123,630 124,246 126,065 123,486 124,167	() () () () ()	81,146 70,720 78,592 81,495 80,264	..... ..... ..... ..... .....	42,484 44,536 47,473 41,991 43,903	18,111 19,186 16,417 14,991 18,943	25,166 26,150 24,567 14,360 27,480	7,595 8,723 872 6,754 3,276	16,685 18,958 16,720 14,197 19,349	1,453 1,143 5,688 5,252 670	25,643 27,924 23,286 26,293 23,295

† No provision for reserve. ‡ Includes investments. § All policies in force subject to assessment for losses. a Includes money loaned.

FARMERS, York'd.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	28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MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year of Organization	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabilities.	Surplus, Including Deposit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
PENNSYLVANIA—Continued.												
LEBANON MUTUAL, Jonestown.....1856.	1893	\$37,556	(§)	\$17,307	.....	\$20,249	\$43,499	\$45,419	\$34,162	\$25	\$13,465	\$47,652
John Melly, Pres., S. Y. Karmany, Sec.	1892	39,640	(§)	12,836	.....	26,804	43,026	45,667	38,271	40	12,168	50,479
	1891	43,670	(§)	12,741	.....	30,929	40,989	41,773	25,173	12	13,257	38,442
	1890	43,823	(§)	11,897	.....	31,926	39,593	40,551	26,236	26	14,611	49,873
	1889	44,774	(§)	14,444	.....	30,330	38,708	39,566	26,487	61	11,527	38,075
MENNONITE MUTUAL, Lancaster.....1893.	1893	6,402	(§)	7,980	.....	— 1,578	7,969	15,917	6,973	.....	5,397	12,280
J. L. Brubaker, Pres., B. D. Heller, Sec.	1893	8,922	\$53,978	5,398	\$57,502	3,524	4,858	4,858	.....	.....	1,575	1,575
MERCANTILE MUTUAL, Philadelphia.....1893.	1893	.....	.....	257,704	.....	1,785,148	4,020	97,639	3,560	5,525	23,694	32,779
John T. Bailey, Pres., F. A. Downes, Sec.	1892	2,024,852	.....	259,209	.....	1,795,049	2,800	101,668	4,544	8,916	23,622	37,082
MUTUAL ASSURANCE, Philadelphia.....1786.	1891	1,979,087	.....	265,325	.....	1,713,762	2,197	93,280	4,072	3,042	23,318	30,432
John Lambert, Chairman, Clifford Lewis, Treas.	1890	1,997,088	.....	266,169	.....	1,640,889	2,601	93,831	3,324	3,453	23,258	29,045
	1889	1,934,131	.....	266,931	.....	1,665,200	3,095	88,879	8,755	4,119	24,059	36,933
MUTUAL OF CHESTER COUNTY, Coatesville.....1840.	1893	89,612	961,873	15,709	1,045,776	83,993	59,113	53,262	43,900	375	6,157	54,432
John P. Edge, Pres., Isaac Speckman, Sec.	1892	86,454	936,917	9,853	1,053,528	76,611	47,114	58,977	51,108	381	5,586	57,069
	1891	94,014	877,441	12,157	959,298	81,857	44,302	46,771	42,213	397	6,345	48,955
	1890	93,740	862,161	20,385	935,316	73,155	43,113	45,016	32,104	382	12,014	44,500
	1889	86,263	858,315	12,826	931,752	73,437	42,439	43,938	22,426	681	20,205	43,312
MUTUAL OF GERMANTOWN, Philadelphia.....1843.	1893	796,828	88,939	310,772	574,995	486,056	22,993	56,340	5,600	1,363	17,687	24,650
Jabez Gates, Pres., Wm. H. Embardt, Sec.	1892	791,471	91,617	303,392	549,696	458,079	21,140	59,147	21,107	.....	17,313	38,480
	1891	740,245	94,135	310,741	523,639	429,594	24,471	55,511	19,264	.....	16,956	36,280
	1890	715,125	97,233	302,863	509,495	412,262	26,228	56,691	19,316	209	18,114	37,639
	1889	698,540	101,615	300,425	499,730	398,115	26,111	56,955	16,181	911	17,187	34,279
MUTUAL, READING.....1870.	1893	24,497	43,655,335	2,800	.....	21,627	6,650	79,367	3,741	168	8,374	79,883
Geo. D. Sittzel, Pres., P. M. Ermentrout, Sec.	1892	21,409	(§)	1,202	.....	20,117	7,900	48,121	3,390	403	5,021	48,486
	1891	20,459	(§)	(†)	.....	20,459	8,869	12,481	2,007	215	4,697	11,997
	1890	17,031	(§)	(†)	.....	17,031	8,958	10,577	5,097	238	4,699	10,924
	1889	18,064	(§)	2,413	.....	17,651	9,457	10,564	2,721	181	8,408	11,310

† No provision for reserve. § All policies in force subject to assessment for losses. ‡ Includes \$67,600 borrowed money paid. / Amount of insurance subject to assessment. — Impairment.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	No. of Policies Issued	Cash Admitted Assets.	Amount of Deposits, Notes,*	Total Liabilities.	Surplus, Including Deposition Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
PENNSYLVANIA—Continued.												
STATE MUTUAL, Harrisburg.....1890.	1893	\$16,708	\$84,200	\$2,647	\$98,351	\$14,061	\$9,762	\$10,783	\$9,982	\$748	\$1,730	\$12,460
C. T. Hanna, Pres., E. K. Huntzinger, Sec.	1892	17,343	64,475	7,366	74,458	9,983	15,683	16,021	5,063	376	2,359	10,999
	1891	11,460	52,121	3,440	60,150	8,090	9,321	13,750	5,000	497	2,901	8,398
	1890	6,782	28,717	6,292	29,207	490	4,587	5,499	.....	.....	836	836
SUSQUEHANNA MUTUAL, Harrisburg.....1873.	1893	44,805	676,042	32,539	688,308	12,266	13,151	14,048	6,238	704	6,714	13,746
H. H. Bechtel, Pres., R. W. Hoffman, Asst. Sec.	1892	44,199	432,788	27,506	449,481	16,693	10,698	11,684	2,241	1,568	5,470	11,719
	1891	38,800	230,774	32,420	229,154	— 1,620	8,935	14,672	3,256	762	9,851	13,869
	1890	30,403	136,820	20,555	140,728	3,908	8,792	13,239	7,000	993	8,316	10,239
	1889	34,854	158,998	27,385	166,467	7,469	10,306	12,340	3,298	171	6,085	9,554
TANNERS MUTUAL, Philadelphia.....1874.	1893	33,536	186,745	(†)	220,281	186,745	32,964	33,754	12,049	8,603	4,739	31,769
D. Porter Lear, Pres., Samuel Kurtz, Sec.	1892	20,095	185,418	(†)	205,513	20,095	37,084	38,330	24,314	1,577	7,356	33,247
	1891	8,711	185,218	(†)	193,999	8,711	37,044	38,636	32,590	9,170	3,926	45,686
	1890	15,875	174,579	(†)	190,454	15,875	35,467	35,646	17,002	7,790	3,506	20,826
	1889	8,874	145,841	(†)	154,715	8,874	32,321	32,457	21,697	7,136	4,196	32,959
UNITED STATES MUTUAL, Philadelphia.....1894.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chas. Hammond, Pres., Lewis Dixon, Sec.	1893	58,129	215,403	(†)	273,532	58,129	6,998	9,809	2,326	175	2,389	4,890
WASHINGTON CO. MUTUAL, Washington.....1873.	1892	53,692	186,593	(†)	240,195	53,692	5,764	8,450	4,291	104	2,335	6,730
A. Murdock, Pres., L. M. Marsh, Sec.	1891	52,032	201,686	(†)	253,712	52,032	6,185	8,102	2,042	42	2,253	4,344
	1890	48,384	199,876	(†)	248,260	48,384	5,690	7,856	1,225	127	1,525	2,877
	1889	44,399	185,190	(†)	229,589	44,399	1,798	6,010	1,522	.....	1,646	3,168
WILLIAMSPORT MUTUAL, Williamsport.....1894.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
J. C. Hill, Pres., Robert S. Melick, Sec.	1893	55,587	12,657	† 725	67,519	54,862	1,418	3,988	20	51	1,753	1,824
YORK COUNTY MUTUAL, York.....1843.	1892	54,181	13,700	† 710	67,171	53,471	2,249	4,690	23	6	1,494	1,523
Jacob Stadl, Pres., S. H. Forry, Sec.	1891	50,877	13,748	† 430	64,195	50,447	1,599	3,809	541	29	1,157	1,727
	1890	49,940	14,799	† 445	64,294	49,495	1,659	3,919	375	9	1,172	1,556
	1889	47,794	16,521	† 430	63,835	47,314	2,419	4,523	.....	24	1,593	1,527

* For Rhode Island companies amounts given in this column are amounts of assessments authorized by charter to pay losses. † No provision for reserve. ‡ Includes borrowed money paid. § Includes investments. — Impairment.

AMERICAN MUTUAL, Providence. J. S. Phetteplace, Pres., R. B. Chapman, Sec.	1893	182,353	2,730,242	143,231	2,778,364	30,122	284,263	294,861	157,361	144,503	90,790	332,584
	1892	230,914	2,560,166	140,742	2,650,338	90,172	263,066	271,308	44,414	139,113	28,800	225,347
	1891	183,904	2,277,892	122,193	2,339,063	61,711	237,813	245,867	116,077	114,624	24,268	254,909
	1890	189,693	2,086,137	117,479	2,136,351	72,214	212,240	219,795	44,234	140,533	19,110	203,677
	1889	181,367	925,130	101,281	1,005,216	80,086	190,599	196,866	45,826	99,211	18,593	163,560
AQUIDNECK MUTUAL.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ATLANTIC MUTUAL, Providence. Chas. Alexander, Pres., Geo. C. Newell, Sec., Starkweather & Shepley, Gen. Mgrs.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BLACKSTONE MUTUAL, Providence. John Eddy, Pres., W. F. Worth, Sec.	1893	323,799	1,483,188	216,042	1,590,045	106,857	295,164	310,039	66,046	200,593	25,283	291,922
	1892	326,012	1,385,392	174,616	1,536,698	151,396	277,060	292,470	56,066	208,193	22,378	286,667
	1891	329,225	1,287,064	160,186	1,439,103	169,039	294,799	268,165	54,382	179,486	20,490	254,358
	1890	296,318	1,209,499	153,825	1,351,922	142,493	240,797	253,488	26,996	175,131	20,237	222,304
	1889	283,755	1,166,772	137,595	1,312,932	146,160	233,354	246,285	72,397	158,138	18,959	249,404
CITIZENS MUTUAL.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
COMMERCIAL MUTUAL.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CRANSTON MUTUAL.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ENTERPRISE MUTUAL, Providence. Chas. H. Merriam, Pres., R. B. Chapman, Sec.	1893	178,270	2,822,262	147,540	2,852,992	30,730	292,408	302,331	158,081	148,190	31,368	337,639
	1892	225,816	2,630,235	144,362	2,711,689	81,454	260,666	278,374	47,619	155,918	29,517	233,054
	1891	179,870	2,340,495	125,993	2,394,402	53,907	242,833	251,536	119,348	117,971	25,312	262,631
	1890	168,078	2,103,256	121,493	2,229,841	66,585	220,285	227,526	42,593	145,540	21,882	210,015
	1889	174,852	949,161	103,932	1,020,081	70,920	194,393	200,995	48,730	103,732	17,849	170,317
ELMWOOD MUTUAL.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FACTORY MUTUAL, Providence.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FIREMENS MUTUAL, Providence. Edwin Barrows, Pres., Joseph T. A. Eddy, Sec.	1893	603,098	2,568,205	270,004	2,901,300	333,095	577,743	547,519	135,437	361,216	34,978	531,631
	1892	611,417	2,441,408	258,886	2,793,839	352,531	486,693	514,997	77,492	373,378	34,395	485,175
	1891	582,599	2,316,513	248,429	2,650,683	334,170	465,231	486,399	79,464	241,645	31,553	452,008
	1890	535,259	2,233,315	234,101	2,534,473	301,158	450,742	474,945	51,017	351,418	30,006	432,441
	1889	515,681	2,137,029	224,601	2,428,109	291,080	431,957	455,946	131,167	302,086	28,777	462,030
FRANKLIN MUTUAL, Providence. A. M. Bowen, Pres., J. R. Wheaton, Sec.	1893	63,124	476,376	50,459	489,041	12,665	13,228	16,419	857	5,279	9,851	15,987
	1892	63,481	464,157	47,218	480,420	16,263	9,999	12,686	5,762	3,551	9,075	18,368
	1891	70,201	457,822	46,010	481,832	20,010	12,504	14,704	867	5,208	9,213	15,288
	1890	70,306	451,999	45,691	476,614	24,615	14,243	17,185	803	6,097	9,284	16,184
	1889	70,711	440,198	44,591	466,408	26,210	15,832	19,424	1,447	5,863	8,933	16,243
GLOBE MUTUAL.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
D. W. Bennett & Co., Mgrs., Boston.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY AND NAMES OF OFFICERS.	Year beginning of year	Cash Admitted Assets.	Conting- ent Assets.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
RHODE ISLAND—Continued.												
HOPE MUTUAL, Providence.	1893	\$159,687	2,959,857	\$117,945	2,102,499	\$42,642	\$222,386	\$210,726	\$48,601	\$41,543	\$16,654	\$206,888
L. T. Downes, Pres., Joseph T. Day, Sec.	1892	144,338	1,959,791	104,063	2,017,020	57,205	192,660	201,734	34,726	123,116	16,627	174,469
	1891	141,433	1,899,976	99,347	1,930,062	45,086	186,586	196,937	111,472	93,217	16,997	221,688
	1890	164,240	1,766,158	101,605	1,888,793	62,635	177,596	185,352	21,000	113,836	51,073	185,969
	1889	126,566	1,628,723	84,806	1,670,483	41,760	166,114	176,404	69,595	92,307	‡ 37,875	199,777
INDUSTRIAL MUTUAL.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
H. A. Richardson, Pres.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
LINCOLN MUTUAL.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MANUFACTURERS MUTUAL, Providence.	1893	174,541	1,343,630	69,968	1,448,203	104,573	133,852	141,707	27,449	99,116	13,148	139,713
H. H. Ormsbee, Pres., R. L. Colman, Sec.	1892	175,160	1,328,104	72,806	1,430,388	102,284	130,167	137,377	19,683	103,227	13,075	135,085
	1891	170,348	1,307,603	72,082	1,405,869	98,266	131,533	138,550	25,333	93,143	12,334	130,810
	1890	163,531	1,290,083	67,224	1,386,340	96,257	128,143	134,478	24,015	100,819	12,483	137,317
	1889	107,681	1,368,698	70,104	1,406,215	97,517	130,536	138,576	21,443	111,828	12,730	146,001
MECHANICS MUTUAL, Providence.	1893	102,200	993,101	51,666	1,043,605	50,504	99,157	103,182	22,759	68,347	10,141	101,247
A. C. Barstow, Pres., H. H. Ormsbee, Sec.	1892	101,277	983,089	54,862	1,020,504	46,415	97,275	101,419	16,902	71,546	10,577	99,025
	1891	98,462	976,305	53,971	1,000,796	44,491	98,128	101,048	24,008	62,066	10,103	97,657
	1890	93,627	948,968	49,483	993,112	44,144	94,321	98,176	18,270	67,318	10,104	95,692
	1889	91,755	970,712	51,673	1,010,594	39,862	96,915	101,265	21,988	81,721	10,263	113,992
MERCANTILE MUTUAL, Providence	1893	76,093	565,246	92,574	548,765	—	115,589	119,412	74,811	49,754	17,904	142,469
H. T. Grant, Jr., Pres., Alfred U. Eddy, Sec.	1892	100,910	546,363	58,166	596,087	42,734	107,733	111,642	14,047	52,736	14,096	80,879
	1891	71,246	494,362	46,111	467,467	25,135	88,655	91,407	23,732	47,641	11,868	83,201
	1890	58,593	398,992	41,495	416,000	17,008	79,479	81,971	17,004	41,108	10,374	68,486
	1889	48,697	350,517	35,651	368,993	12,446	70,350	72,458	39,151	24,434	10,177	73,762
MERCHANTS MUTUAL, Providence.	1893	169,636	779,132	122,756	826,012	46,880	155,300	163,195	37,600	95,143	13,558	146,301
John Eddy, Pres., W. F. Worth, Sec.	1892	163,750	729,634	91,122	802,462	71,628	144,810	152,381	38,951	100,618	12,324	151,863
	1891	167,279	681,865	84,071	765,973	83,208	134,877	142,101	34,948	90,743	11,863	137,574
	1890	153,460	649,780	84,331	718,993	69,129	130,171	137,281	12,088	89,447	12,086	113,591
	1889	142,312	621,634	74,526	689,620	67,786	124,367	131,273	44,550	79,595	10,556	134,665
NARRAGANSETT MUTUAL.	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
NATIONAL MUTUAL.	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Supplemental report, February 1, 1894, shows impairment of \$793. ‡ Includes \$24,750 paid for investments. — Impairment.

MUTUAL COMPANIES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAMES OF OFFICERS.	Year Began Business	Cash Admitted Assets.	Amount of Deposit Notes.	Total Liabili- ties.	Surplus, Includ- ing De- posit Notes.	Net Cash Surplus.	Cash Premiums Received	Total Cash Income.	Paid for Losses.	Returned to Policy- holders.	Other Expenses.	Total Disburse- ments.
SOUTH CAROLINA.												
CAROLINA MUTUAL, Charleston.....	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
A. Stenmerrmann, Pres., H. Klatte, Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1889	\$69,909	.....	\$59,799	.....	\$10,110	.....	\$49,490	.....	.....	.....	\$22,957
FARMERS MUTUAL, Edgefield.....	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FARMERS MUTUAL, Chester.....	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
John C. Sellers, Pres., Thos. F. Harman, Gen. Agt., Newberry.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GERMANIA MUTUAL, Charleston.....	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
E. H. Jahaz, Pres., A. A. Kroeg, Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MERCHANTS MUTUAL, Charleston.....	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
HIBERNIAN MUTUAL, Charleston.....	1885	26,154	.....	.....	.....	.....	1,494	2,641	66	809	1,177	2,052
E. F. Sweegan, Pres., M. F. Kennedy, Sec. and Treas.	1892	23,602	.....	.....	.....	.....	1,551	2,443	253	465	1,186	1,968
	1891	17,863	.....	.....	.....	.....	1,914	3,140	470	717	1,117	2,934
	1890	17,597	.....	.....	.....	.....	2,224	2,918	1,042	753	946	2,741
	1889	.....	.....	.....	.....	.....	2,764	4,395	840	426	865	2,161
TENNESSEE.												
FACTORS MUTUAL (MARINE), Memphis.....	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
N. Fontaine, Pres.; Jas. E. Beasley, Sec.	1892	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VERMONT.												
UNION MUTUAL, Montpelier.....	1893	10,990	494,301	500	504,791	10,490	29,230	29,230	18,229	814	7,239	26,282
M. M. Cutler, Pres., J. H. Senter, Sec.	1892	22,214	415,737	13,868	424,083	8,346	22,671	24,987	14,226	.....	8,530	22,756
	1891	5,431	392,656	.....	398,087	5,431	25,950	26,950	17,862	791	5,450	24,103
	1890	19,776	421,417	14,231	466,968	5,545	24,065	24,065	16,347	1,224	6,487	24,058
	1889	19,629	368,075	14,111	373,593	5,518	19,466	19,466	11,394	1,235	5,837	18,376
VERMONT MUTUAL, Montpelier.....	1893	55,119	2,795,746	1,300	2,799,585	53,819	151,299	159,343	105,449	8,223	22,870	136,542
H. N. Taplin, Pres., J. T. Sablin, Sec.	1892	56,060	2,760,654	5,355	2,767,379	59,725	156,847	159,000	95,710	9,620	45,541	150,671
	1891	55,229	2,878,061	1,075	2,931,615	53,554	174,415	179,054	133,988	2,993	39,450	176,401
	1890	180,748	3,083,075	173,124	3,090,699	7,624	180,074	180,824	139,624	3,442	21,066	164,132
	1889	188,711	3,287,664	179,601	3,296,774	9,110	179,235	180,375	140,271	1,538	37,410	179,219

Statement for year ending July 1.

Statement for year ending August 1.

Statements for year ending March 15.

* Began business in October, 1892.

FOREIGN FIRE COMPANIES DOING BUSINESS IN THE UNITED STATES.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAME OF PRINCIPAL AMERICAN MANAGER.	Year ending in: December	STATEMENT OF THE UNITED STATES BRANCH.							STATEMENT OF HOME OFFICE.		
		Total Assets in the United States.	Total Liabilities	Surplus Over all Liabilities	Cash Premiums Received.	Total Income.	Paid for Losses.	Expenses Other than Losses.	Total Disbursements.	Capital Paid up.	Total Assets, Including all Departments.
AACHEN-MUNICH, AIX LA CHAPELLE, Ger. t.....1825. Voss, Conrad & Co., General Managers, San Francisco, Cal.	1893	.....	.....	.....	\$47,990	.....	\$5,906	.....	.....	2,250,000	\$6,854,653
ALLIANCE, London t.....1824. N. T. James, Manager, San Francisco, Cal.	1892 1894	\$220,982 914,067	\$187,019 248,248	\$723,963 665,819	246,514 254,707	\$262,627 273,999	199,136 114,156	\$101,433 132,681	\$300,569 246,837	2,750,000 2,750,000	419,085,225 6,769,730
ATLAS, London.....1808. J. M. Neuberger, Manager, Chicago, Ill.	1893 1892 1891 1890 1889	758,150 730,878 339,106 261,015	430,020 267,151 92,056 55,272	328,130 463,727 247,050 205,743	477,682 356,350 106,498 79,982 86,246	499,995 360,202 106,498 79,982	274,142 141,890 43,052 44,865 71,736	153,848 117,077 42,410 29,225	427,990 258,907 85,462 74,090	720,000 720,000 720,000 720,000 720,000	9,891,250 9,813,595 9,941,060 9,788,395 9,777,798
BALOISE, Basle a.....1863. H. W. Syz, General Agent, San Francisco.	1893 1892 1891	..... ..... .....	..... ..... .....	..... ..... .....	18,128 15,009 13,391	..... ..... .....	6,732 8,965 1,500	..... ..... .....	..... ..... .....	400,000 400,000 400,000	1,000,385 1,000,025 982,300
BRITISH AMERICA ASSURANCE COMPANY, Toronto.....1833. Geo. A. Cox, Pres., J. J. Kenny, Vice-Pres., P. H. Sims, Sec., Toronto.	1893 1892 1891 1890 1889	1,108,936 819,092 701,878 854,218 866,128	710,562 496,963 424,721 453,722 458,742	398,374 322,129 299,157 400,496 407,386	940,357 528,835 542,477 585,681 607,891	966,717 621,993 570,575 618,132 635,327	600,689 417,583 406,432 363,198 409,614	299,579 184,481 168,023 177,284 186,876	900,268 602,064 574,455 540,482 590,490	750,000 500,000 500,000 500,000 500,000	1,399,421 1,019,901 1,079,248 1,156,671 1,174,139
CALEDONIAN, Edinburgh.....1805. Chas. H. Post, Resident Manager, New York.	1893 1892 1891 1890 1889	1,879,499 1,974,246 965,545 1,024,488	1,510,440 1,516,849 597,213 463,761	369,059 457,397 458,332 560,727	1,610,795 1,881,476 592,443 526,093 82,923	1,669,977 1,920,202 679,308 535,795	1,200,022 770,619 436,155 86,085 93,744	600,436 772,847 260,408 191,190	1,801,358 1,463,466 696,593 277,275	537,500 537,500 537,500 450,000 450,000	9,253,100 5,175,950 1,847,085 1,923,619

NOTE.—Companies doing business only on the Pacific Coast, with few exceptions, have no deposit or assets of any kind in this country. † Acquired the business of the Union of San Francisco. ‡ Will deposit \$200,000 in some Eastern State. § Does business on the Pacific Coast and in Colorado. ¶ Life and fire.

COMMERCIAL UNION ASSUR. CO. (Limited), London....1861. C. Sewall, Manager, A. H. Wray, Asst. Manager, J. H. Kattenstroth, Local Sec., New York.	1893 1894 1895 1896 1897 1898 1899	3,555,199 3,590,990 3,535,959 3,524,955 3,520,988 3,520,988 3,520,988	616,316 703,235 703,235 703,235 703,235 703,235 703,235	938,883 887,755 1,100,759 1,057,394 1,009,788 1,009,788 1,009,788	2,837,499 2,990,967 2,990,967 2,990,967 2,990,967 2,990,967 2,990,967	2,952,576 3,107,813 3,107,813 3,107,813 3,107,813 3,107,813 3,107,813	2,078,000 2,050,600 1,886,692 1,886,692 1,722,856 1,722,856 1,722,856	848,185 928,838 875,190 848,893 785,597 785,597 785,597	2,026,185 2,089,438 2,089,438 2,089,438 2,089,438 2,089,438 2,089,438	1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000 1,250,000
GUARDIAN FIRE AND LIFE ASSUR. CO., London t.....1821. J. L. Kendig, Manager, New York.	1893 1894 1895 1896 1897 1898 1899	1,804,572 1,671,939 1,684,717 1,050,219 1,011,956 1,011,956 1,011,956	1,168,747 1,136,949 1,136,949 1,050,219 1,011,956 1,011,956 1,011,956	635,895 534,990 534,990 773,591 764,352 764,352 764,352	1,126,522 1,097,182 1,097,182 1,097,182 1,097,182 1,097,182 1,097,182	1,164,431 1,134,043 1,134,043 1,134,043 1,134,043 1,134,043 1,134,043	836,539 799,981 762,908 458,825 485,579 485,579 485,579	445,596 448,138 443,350 445,325 445,325 445,325 445,325	1,282,125 1,172,109 1,206,264 924,150 866,820 866,820 866,820	5,000,000 5,000,000 5,000,000 5,000,000 5,000,000 5,000,000 5,000,000
LIAMBURG-BREMEN, Hamburg.....1854. F. O. Affeld, Manager, New York.	1893 1894 1895 1896 1897 1898 1899	1,231,116 1,330,442 1,218,525 1,176,213 1,152,580 1,152,580 1,152,580	950,453 1,015,933 914,590 798,002 765,474 765,474 765,474	280,663 314,559 393,935 380,211 387,106 387,106 387,106	1,146,887 1,216,927 1,057,052 959,147 949,419 949,419 949,419	1,196,621 1,205,144 1,102,026 994,201 991,678 991,678 991,678	909,239 782,218 664,326 534,051 657,086 657,086 657,086	379,656 369,887 397,668 344,175 337,461 337,461 337,461	1,288,895 1,172,105 1,031,427 878,226 994,547 994,547 994,547	300,000 300,000 300,000 300,000 300,000 300,000 300,000
HAMBURG-MAGDEBURG, Hamburg *.....1876. Gutte & Frank, General Agents, San Francisco, Cal.	1893 1894 1895 1896 1897 1898 1899	306,032 ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	93,517 79,694 71,185 75,564 72,769 72,769 72,769	..... ..... ..... ..... ..... ..... .....	37,972 50,758 45,250 35,533 94,163 94,163 94,163	..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	605,000 625,000 625,000 625,000 625,000 625,000 625,000
HELVETIA SWISS FIRE, St. Gall *.....1858. H. W. Syz, General Agent, San Francisco, Cal.	1893 1894 1895 1896 1897 1898 1899	..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	100,165 95,119 100,576 107,152 100,070 100,070 100,070	..... ..... ..... ..... ..... ..... .....	28,696 44,840 36,413 70,270 35,318 35,318 35,318	..... ..... ..... ..... ..... ..... .....	..... ..... ..... ..... ..... ..... .....	400,000 400,000 400,000 400,000 400,000 400,000 400,000
IMPERIAL, London.....1893. Resident Managers: J. J. Courtney, New York; General Attorney, John C. Paige, Boston; Courtney & McCay, New York; D. C. Osman, Chicago; Wm. Sexton, San Francisco; J. J. Swainson, Sec., New York.	1893 1894 1895 1896 1897 1898 1899	1,847,272 1,854,882 1,868,886 1,622,874 1,617,038 1,617,038 1,617,038	1,084,468 1,134,457 1,015,221 925,566 888,190 888,190 888,190	762,804 793,665 720,425 767,348 728,848 728,848 728,848	1,160,794 1,241,009 1,159,576 1,087,912 1,087,912 1,087,912 1,087,912	1,217,274 1,294,780 1,197,121 1,147,787 1,135,912 1,135,912 1,135,912	913,979 793,496 793,415 566,522 704,499 704,499 704,499	407,093 440,794 440,794 389,114 786,025 786,025 786,025	1,321,072 1,228,349 1,343,449 1,070,874 2,093,543 2,093,543 2,093,543	1,500,000 1,500,000 1,500,000 1,500,000 3,500,000 3,500,000 3,500,000
LANCASHIRE, Manchester.....1852. E. Litchfield, Mgr., J. H. Stoddart, Asst Mgr., New York.	1893 1894 1895 1896 1897 1898 1899	2,287,772 2,894,753 2,901,392 2,010,219 1,860,682 1,860,682 1,860,682	1,661,895 2,082,708 2,573,624 1,315,463 1,124,073 1,124,073 1,124,073	625,881 812,045 327,768 694,756 756,069 756,069 756,069	2,085,217 2,721,858 2,804,298 1,657,037 1,454,982 1,454,982 1,454,982	2,175,856 2,828,297 2,883,752 1,737,161 1,521,760 1,521,760 1,521,760	1,828,715 2,495,226 1,337,267 584,759 996,869 996,869 996,869	786,025 1,005,538 1,121,701 584,759 900,475 900,475 900,475	2,614,740 3,500,564 2,458,068 1,364,930 1,603,019 1,603,019 1,603,019	1,364,930 1,364,930 1,364,930 1,364,930 1,364,930 1,364,930 1,364,930
LION FIRE, London.....1879. M. Bennett, Manager, J. H. Brewster, Asst Manager, Hardford.	1893 1894 1895 1896 1897 1898 1899	914,333 854,177 837,051 411,664 783,244 783,244 783,244	600,473 497,225 411,664 425,387 388,248 388,248 388,248	313,666 313,860 336,952 436,186 394,996 394,996 394,996	578,572 564,603 501,766 436,186 416,331 416,331 416,331	666,596 612,172 536,587 460,550 441,740 441,740 441,740	446,031 356,585 295,301 222,419 396,649 396,649 396,649	500,475 184,403 174,532 963,719 136,881 136,881 136,881	1,563,019 1,563,019 1,563,019 1,563,019 1,563,019 1,563,019 1,563,019	560,069 560,069 560,069 560,069 560,069 560,069 560,069

* Purchased in 1894 by the Magdeburg Fire, † Retiring from and in the United States; reinsured a large portion of its risks in the New York Underwriters Agency. ‡ Does business only on the Pacific Coast. § Does business only on the Pacific Coast. ¶ Retiring from and in the United States; reinsured a large portion of its risks in the New York Underwriters Agency. † Does business only on the Pacific Coast.

FOREIGN COMPANIES DOING BUSINESS IN THE UNITED STATES—Continued.

NAME OF COMPANY AND NAME OF PRINCIPAL AMERICAN MANAGER.	Year Ending 31.	STATEMENT OF THE UNITED STATES BRANCH.							STATEMENT OF HOME OFFICE.		
		Total Assets in the United States.	Total Liabilities.	Surplus over all Liabilities.	Cash Premiums Received.	Total Income.	Paid for Losses.	Expenses Other than Losses.	Total Disbursements.	Capital Paid up.	Total Assets, Including all Departments.
LIVERPOOL AND LONDON AND GLOBE, Liverpool. H. W. Eaton, Resident Manager, G. W. Hoyt, Deputy Manager, New York.	1893 1894 1895 1896 1897	8,598,271 8,193,023 7,862,847 7,459,995 7,337,156	5,571,746 5,163,827 5,002,176 4,453,861 4,598,248	3,026,525 3,029,196 2,860,671 3,006,134 3,038,908	5,690,877 5,393,150 4,813,522 4,497,000 4,273,372	5,959,230 5,649,779 5,031,388 4,771,087 4,516,668	3,651,971 3,501,485 3,152,174 2,467,612 2,863,933	1,622,796 1,597,672 1,466,064 1,347,134 1,299,038	5,274,767 5,080,157 4,619,137 3,814,748 4,102,971	1,228,200 1,228,200 1,228,200 1,228,200 1,228,200	48,254,205 44,397,335 44,440,595 45,868,176 44,982,492
LONDON AND LANCASHIRE, Liverpool. A. G. McIlwaine, Jr., Manager, New York.	1893 1894 1895 1896 1897	2,621,029 2,639,588 2,453,941 2,272,084 2,104,080	1,962,197 1,934,610 1,843,293 1,565,793 1,311,736	678,832 704,978 610,648 706,291 792,344	2,034,618 2,140,269 1,813,330 1,740,297 1,553,944	2,129,287 2,223,593 1,873,242 1,822,652 1,631,467	1,328,094 1,355,501 1,106,227 954,152 1,022,217	696,041 670,250 683,496 591,986 595,987	2,024,135 2,070,250 1,789,723 1,516,138 1,528,204	1,063,750 1,063,750 1,063,750 920,000 920,000	5,221,335 5,247,411 5,943,995 12,780,595 12,651,052
LONDON ASSURANCE CORPORATION, London. Chas. L. Case, Manager, New York.	1893 1894 1895 1896 1897	1,603,603 1,721,608 1,728,479 1,793,073 1,661,654	988,789 1,079,043 963,626 838,324 748,647	614,814 622,565 774,853 954,749 912,407	989,485 1,109,800 1,103,654 996,464 868,056	1,046,848 1,156,424 1,148,024 1,059,762 922,733	720,917 746,368 762,545 532,576 576,926	365,017 410,383 412,061 360,071 315,344	1,085,934 1,156,751 1,175,506 892,647 892,270	2,241,375 2,241,375 2,241,375 2,241,375 2,241,375	18,708,000 18,665,770 18,859,624 18,837,392 18,216,787
MAGDEBURG FIRE, Magdeburg. Guthe & Frank, Managers, San Francisco, Cal.	1893 1894 1895 1896 1897	..... ..... ..... ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... .....	25,052 21,974 20,778 20,954 20,445	..... ..... ..... ..... .....	4,744 9,948 3,967 15,328 6,594	..... ..... ..... ..... .....	..... ..... ..... ..... .....	750,000 750,000 750,000 750,000 750,000	4,941,988 5,181,563 4,722,573 4,286,715 4,093,037
MANCHESTER, Manchester. W. W. Dudley, Manager, C. B. French, Asst. Mgr., Chicago, Ill.	1893 1894 1895 1896 1897	2,085,549 1,782,849 1,183,754 660,439	1,592,380 1,266,963 665,751 196,297	493,169 515,886 518,003 504,142	1,675,131 1,476,587 804,912 152,311 122,438	1,729,361 1,513,352 829,393 152,311	1,126,946 758,101 313,032 76,346 122,381	559,383 519,492 297,821 74,971	1,686,399 1,277,593 610,853 150,617	1,000,000 750,000 750,000 750,000 500,000	4,014,250 2,762,100 2,399,075 2,074,739 1,168,156
NATIONAL ASSURANCE CO., Dublin. Gilbert Palache, Mgr., San Francisco, Cal.	1893 1894 1895 1896 1897	267,018 275,868 268,981 262,005	60,315 62,269 63,475 58,979	206,703 213,599 205,506 203,026	85,968 90,974 81,375 85,592 91,469	85,968 90,974 81,375 85,592	54,700 40,814 41,449 50,265 67,964	28,986 30,751 32,399 30,147	83,686 71,565 73,848 80,412	500,000 500,000 500,000 500,000 500,000	1,541,480 2,794,781 2,686,300 2,818,577 2,872,650

NOTE.—Companies doing business only on the Pacific Coast, with few exceptions, have no deposit or assets of any kind in this country. * Does business only on the Pacific Coast.

† Fire fund.

FOREIGN COMPANIES DOING BUSINESS IN THE UNITED STATES—Continued.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAME OF PRINCIPAL AMERICAN MANAGER.	Year Ending December 31.	STATEMENT OF THE UNITED STATES BRANCH.						STATEMENT OF HOME OFFICE.			
		Total Assets in the United States.	Total Liabilities.	Surplus over all Liabilities.	Cash Premiums Received.	Total Income.	Paid for Losses.	Expense Other than Losses.	Total Disburse- ments.	Capital Paid up.	Total Assets, Including all De- partments.
PRUSSIAN NATIONAL, Stettin.....1846. Theo. W. Letton, Manager, John F. Rice, Asst. Mgr., Chicago, Ill.	1893 1892 1891 1890 1889	\$763,509 714,738 624,094	\$368,691 255,439 112,265	\$394,818 459,299 511,889	\$418,408 330,665 102,680 101,922 106,669	\$442,579 337,500 102,680	\$259,404 115,752 45,221 51,931 159,593	\$170,388 141,010 46,104	\$429,792 256,762 91,325	\$562,500 562,500 562,500 562,500 562,500	\$2,130,000 2,069,991 1,707,712 1,632,534
ROYAL, Liverpool.....1845. E. F. Beddall, Manager, Geo. M. Coit, Ass't Manager, New York.	1893 1892 1891 1890 1889	7,469,681 7,180,858 6,693,149 5,973,780 5,406,736	5,273,839 5,110,463 4,589,057 3,810,875 3,356,742	2,195,842 2,070,395 2,104,092 2,162,905 2,049,994	4,025,131 4,731,855 4,027,911 3,574,840 3,079,212	5,176,924 4,972,695 4,265,234 3,764,549 3,276,740	3,269,087 2,984,761 2,580,258 1,832,073 1,735,924	1,583,466 1,510,693 1,495,454 1,162,867 1,035,917	4,859,547 4,495,454 3,986,162 2,994,404 2,771,841	1,878,510 1,878,510 1,833,510 1,447,795 1,447,795	42,489,100 42,268,535 44,761,204 35,742,644 33,567,410
ROYAL EXCHANGE, London *.....1790. Robt. Dickson, Resident Manager, San Francisco.	1893 1892 1891	382,196 346,168 330,267	131,662 98,666 37,266	250,534 247,502 292,971	159,879 123,281 27,045	170,361 133,281 33,451	46,113 53,951 6,428	77,396 56,818 17,975	123,599 110,769 24,403	3,446,100 3,446,100 3,446,100	20,871,444 20,718,218 21,132,297
SCOTTISH UNION & NATIONAL, Edinburgh & London.....1824. M. Bennett, Manager, Jas. H. Brewster, Ass't Manager, Hartford.	1893 1892 1891 1890 1889	2,543,249 2,258,649 2,032,577 1,895,233 1,673,759	1,501,033 1,088,532 860,103 625,431 530,886	1,042,216 1,170,117 1,174,474 1,269,802 1,142,879	1,269,453 891,370 713,337 600,083 502,876	1,360,395 974,691 791,794 668,391 564,327	722,313 491,372 423,485 256,764 354,033	373,754 258,600 238,186 182,704 150,508	1,096,067 750,062 661,671 439,404 504,541	1,500,000 1,500,000 1,500,000 1,500,000 1,500,000	21,072,895 20,392,710 19,840,049 19,335,400 18,306,495
SUN INSURANCE OFFICE, London †.....1710. J. J. Guile, Manager, New York, N. Y.	1893 1892 1891 1890 1889	2,449,543 2,671,250 2,510,368 2,222,725 1,956,331	1,091,012 2,093,330 1,653,516 1,397,800 1,138,721	548,531 667,020 856,852 824,925 817,610	1,081,608 1,557,562 1,753,176 1,455,218 1,211,377	2,083,836 2,244,353 1,820,344 1,590,967 1,284,169	1,589,398 1,376,272 1,272,748 765,351 795,101	689,256 737,182 660,771 476,188 417,395	2,278,564 2,113,456 1,723,459 1,243,539 1,212,406	600,000 600,000 600,000	9,801,625 19,517,045 10,198,390 10,044,710
SVVA, Gothenburg ‡..... Brown, Craig & Co., Managers, San Francisco, Cal.	1893 1892 1891 1890 1889	..... ..... ..... ..... .....	..... ..... ..... ..... .....	..... ..... ..... ..... .....	34,326 50,119 44,418 58,556 60,564	..... ..... ..... ..... .....	6,468 33,316 31,866 36,598 45,073	..... ..... ..... ..... .....	..... ..... ..... ..... .....	533,333 533,333 533,333 533,333 533,333	5,196,707 4,896,955 4,654,920 4,266,725 4,167,558

NOTE.—Companies doing business only on the Pacific Coast, with few exceptions, have no deposit or assets of any kind in this country.

* Authorized by Parliament to transact any kind of insurance.

† Does business on the Pacific Coast and in Texas.

‡ Does business only on the Pacific Coast.

§ Fire funds.

TRANSATLANTIC, Hamburg.....1872. E. Harbers, Manager, New York.	1893 1892 1891 1890 1889	654,433 640,346 541,257 534,795 517,407	347,540 313,279 285,514 203,554 179,745	306,793 327,057 315,743 331,241 337,662	418,990 393,807 271,420 263,874 203,140	440,916 409,457 287,422 281,122 279,555	270,279 181,961 165,272 140,881 148,347	167,176 152,706 109,892 107,054 105,212	437,455 334,667 275,164 247,935 253,559	300,000 300,000 300,000 300,000 300,000	1,617,595 1,404,085 1,504,498 1,493,934 1,511,558
UNION ASSURANCE SOCIETY, London.....1714. Hall & Henshaw, Managers, New York.	1893 1892 1891 †1890 1889	841,967 667,979 587,267 566,196	315,246 214,911 133,177 29,283	526,721 453,068 454,090 530,913	444,840 281,180 181,357 99,259 11,140	468,202 304,361 197,411 39,259	205,052 106,052 35,872 12,490 3,255	145,626 86,613 60,271 12,977	350,648 102,685 96,143 25,467	900,000 900,000 900,000 900,000 900,000	3,339,700 12,053,515 12,218,650 11,694,825 11,894,951
WESTERN ASSURANCE Co., Toronto.....1851. J. J. Kenny, Managing Director, C. C. Foster, Sec., Toronto.	1893 1892 1891 1890 1889	1,632,577 1,617,105 1,317,426 1,122,113 1,051,616	1,147,834 1,058,326 733,323 636,393 607,840	594,743 558,869 584,103 475,520 443,776	1,817,254 1,688,227 1,249,534 1,209,203 1,240,506	1,856,374 1,724,524 1,285,481 1,243,532 1,273,749	1,325,146 1,004,571 872,418 753,933 918,130	562,404 535,075 415,180 369,125 373,445	1,887,550 1,539,646 1,287,528 1,124,158 1,291,575	1,000,000 600,000 500,000 500,000 500,000	2,445,280 2,013,047 1,637,737 1,555,065 1,457,255

† Statement as of February 18, 1891. v Fire assets.

FOREIGN MARINE COMPANIES DOING BUSINESS IN THE UNITED STATES.

NAME AND DATE OF ORGANIZATION OF COMPANY, AND NAME OF PRINCIPAL AMERICAN MANAGER.	Year Ending 31 December	STATEMENT OF THE UNITED STATES BRANCH.							STATEMENT OF HOME OFFICE.		
		Total Assets in the United States.	Total Liabilities	Surplus over all Liabilities	Cash Premiums Received.	Total Income.	Paid for Losses.	Expenses Other than Losses.	Total Disburse- ments.	Capital Paid up.	Total Assets Including all De- partments
BRITISH AND FOREIGN MARINE (Limited), Liverpool..... Louis A. Wight, Manager, New York.	1893	1,301,967	\$641,485	\$660,482	1,255,404	1,301,495	\$488,119	\$273,071	\$761,190	1,340,000	\$7,490,835
GENERAL MARINE, Dresden..... J. Bertschmann, Manager, New York.	1893	243,214	7,995	235,219	44,442	44,442	39,040	5,233	44,273	.....	.....
INDEMNITY MUTUAL ASSURANCE, London..... Herbert Appleton, Manager, New York.	1893	268,464	77,625	190,839	164,876	171,051	131,204	25,510	156,714	1,005,000	3,722,395
LONDON ASSURANCE CORPORATION, London..... C. L. Despard, Manager, New York.	1893	572,055	163,532	408,523	418,793	438,395	328,162	101,079	429,241	2,241,375	18,708,000
MANNHEIM, Mannheim..... Jas. J. Riley, Manager, New York.	1893	396,611	60,766	335,845	163,353	163,353	138,070	28,199	166,199	500,000	1,578,539
MARINE (Limited), London..... Percy Chubb, Manager, New York.	1893	583,109	130,190	452,919	240,569	251,432	90,437	58,418	148,855	900,000	5,669,283
RELIANCE, Liverpool..... Henry Despard, Attorney, New York.	1893	381,041	44,139	336,902	152,471	164,199	82,551	44,720	127,271	500,000	1,332,380
SEA (Limited), Liverpool..... Percy Chubb, Manager, New York.	1893	419,458	121,764	297,694	271,805	284,605	184,506	38,918	223,424	500,000	3,079,250
STANDARD (Limited), Liverpool..... Higgins, Cox & Barrett, Attorneys, New York.	1893	273,554	88,751	184,803	186,579	193,283	117,257	18,995	136,182	500,000	1,493,028
SWITZERLAND, Zurich..... Jacob Bertschmann, Manager, New York.	1893	226,929	14,436	212,493	204,714	204,714	184,323	28,162	212,485	200,000	.....
THAMES AND MERSEY (Limited),..... A. J. Macdonald, Manager, New York.	1893	565,650	95,572	470,078	246,752	261,852	153,610	61,567	215,177	1,000,000	6,200,114
UNION (Limited), Liverpool..... W. R. T. Jones & Jas. A. Whitlock, Mgrs., New York.	1893	358,191	75,243	282,948	271,457	283,478	118,465	52,593	171,058	817,500	4,084,465

The following additional foreign marine companies are doing business on the Pacific Coast, but not elsewhere in this country :

ALLIANCE MARINE, London.	FRANKFORT, Frankfort.	NORTH CHINA, Shanghai.	TRANSATLANTIC MARINE, Berlin.
ALLIANZ, Berlin.	HELVETIA GENERAL, St. Gall.	NORTH QUEENSLAND, Sydney.	UNION, Hong Kong.
AUSTRIAN PHOENIX, Vienna.	* INTERNATIONAL MARINE, Liverpool.	ON TAI, Hong Kong.	UNIVERSO, Milan.
BAYARIAN LLOYDS, Munich.	LONDON AND PROVINCIAL, London.	OCEAN, London.	WILHELM OF MAGDEBURG GENERAL,
CANTON, Hong Kong.	MAN ON, Hong Kong.	† RHEINISCH WESTPHALIAN LLOYDS, M.	Magdeburg.
CHINA TRADERS, Hong Kong.	MARITIME, Liverpool.	Gladbeck.	YANGTZE, Shanghai.
FEDERAL, Zurich.	MUNICH, Munich.	SWITZERLAND MARINE.	
FONCIERE, Paris.	NATIONAL MARINE, London.		

* Also does business in Louisiana.

† Company does business on Gulf Coast only.

TOTAL FIRE INSURANCE TRANSACTIONS IN THE UNITED STATES.

RECAPITULATION SHOWING AGGREGATES OF CAPITAL, ASSETS, SURPLUS, INCOME AND DISBURSEMENTS OF ALL JOINT STOCK AND MUTUAL FIRE AND MARINE INSURANCE COMPANIES GIVEN IN THE PRECEDING TABLES.

In some of the States enumerated in the following recapitulation a falling off in capital and assets is shown. This arises chiefly from the fact that some of the companies will not report their transactions or financial standing. Most of those that neglect to do so are mutuals, although some stock companies are delinquent in this respect. The apparent loss of capital and assets in these States may not be a loss in fact.

NAME OF STATE.	Stock Companies.	Mutual Companies.	Year Ending Dec. 31.	Capital.	Total Assets, Exclusive of Premium Notes.	Net Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Paid for Dividends.*	Expenses Other than Losses and Dividends.	Total Disbursements.
ALABAMA	5	..	1893	\$ 650,000	\$ 938,682	\$ 9,271	\$ 91,194	\$ 241,794	\$ 134,108	\$ 38,880	\$ 83,628	\$ 256,616
	4	..	1894	550,000	850,639	76,464	156,144	213,794	86,440	22,200	73,161	181,801
	7	..	1891	849,400	1,327,458	71,950	429,671	595,686	238,868	47,899	174,980	401,557
	7	..	1890	849,400	1,357,653	49,264	369,780	494,682	371,898	58,641	166,416	596,955
	7	..	1889	844,225	1,372,690	152,418	399,375	510,675	227,867	62,205	169,038	459,170
ARKANSAS.....	1	..	1893	64,875	98,619	7,808	28,399	33,898	9,689	.....	13,298	22,987
	1	..	1892	59,950	89,561	5,561	22,944	27,190	11,863	14,950	6,697	18,560
	1	..	1891	59,950	86,263	6,561	14,545	20,556	16,299	.....	.....	16,299
	1	..	1890	54,975	79,117	8,071	14,654	19,730	6,057	.....	4,297	10,354
	1	..	1889	50,000	69,091	5,827	12,072	15,820	2,134	.....	3,581	5,715
CALIFORNIA.....	4	..	1893	1,800,000	5,154,344	1,071,119	2,098,080	3,334,822	1,858,590	108,054	1,100,751	3,157,395
	5	..	1892	2,200,000	5,816,970	1,660,908	3,886,399	4,104,698	2,199,666	199,875	1,467,379	3,856,691
	7	..	1891	3,550,000	7,721,840	1,119,236	4,326,026	4,671,356	2,615,988	340,685	1,726,401	4,889,074
	10	..	1890	4,150,000	8,478,381	1,163,732	4,977,754	5,356,662	2,603,784	291,975	1,985,646	4,881,405
	11	..	1889	6,150,000	10,826,977	998,781	5,467,205	6,112,057	3,795,626	369,549	2,201,268	6,366,443
COLORADO .....	..	..	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1	1	1892	200,000	276,949	22,309	49,361	68,289	33,287	.....	14,778	48,065
	1	1	1891	200,000	322,825	10,497	87,079	109,159	96,560	.....	56,347	152,967
	1	1	1890	200,000	333,386	5,132	170,191	191,312	53,984	.....	84,999	138,983
	1	1	1889	200,000	285,873	33,366	60,012	68,466	8,500	.....	44,664	53,164
CONNECTICUT.....	8	8	1893	10,000,000	34,015,970	8,084,203	17,238,951	18,796,317	11,001,051	1,484,477	5,678,992	18,164,590
	8	8	1892	10,550,000	34,480,353	9,673,933	16,403,674	17,868,143	9,744,281	1,540,000	5,494,097	16,779,978
	8	8	1891	10,550,000	33,060,617	10,126,187	14,250,527	15,811,869	8,500,816	1,584,000	4,834,843	14,889,659
	9	8	1890	10,750,000	32,472,700	10,675,863	13,134,948	14,592,111	6,901,475	1,586,000	4,404,501	12,885,976
	9	8	1889	10,750,000	30,747,322	10,040,796	11,866,724	13,199,124	7,132,003	1,527,500	3,997,399	12,656,902

* Includes amount returned to policyholders.

† Stock dividend.

TOTAL FIRE INSURANCE TRANSACTIONS IN THE UNITED STATES—Continued.

NAME OF STATE.	Stock Com-panies.	Mutual Com-panies.	Year Ending Dec. 31.	Capital.	Total Assets, Exclusive of Premium Notes.	Net Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Paid for Dividends.*	Expenses Other than Losses and Dividends.	Total Disbursements.
DELAWARE.....	..	4	1893	\$	\$ 507,957	\$ 485,125	\$ 89,885	\$ 114,267	\$ 39,567	\$ 31,680	\$ 23,545	\$ 97,002
	..	4	1894	.....	724,194	486,386	87,934	112,382	24,161	24,161	23,545	112,847
	..	4	1895	.....	453,804	435,663	88,413	116,118	58,952	35,250	23,223	124,088
	..	4	1896	.....	448,656	314,077	89,762	116,102	43,114	26,124	21,153	97,279
	..	4	1897	.....	461,537	423,769	94,077	117,934	61,543	25,644	25,110	112,297
DISTRICT OF COLUMBIA.....	12	1	1893	1,300,500	2,720,015	997,769	223,940	361,074	83,063	115,698	111,369	310,130
	11	1	1894	1,200,500	2,504,916	826,521	221,677	402,864	55,269	109,564	119,545	335,276
	9	..	1895	1,095,000	1,742,169	468,748	144,579	219,097	26,141	75,000	61,733	162,874
	10	1	1896	1,100,500	1,981,323	601,245	186,209	292,231	40,439	92,002	127,430	238,583
	11	1	1897	1,100,500	2,355,769	701,691	179,171	376,624	30,872	89,383	157,114	269,827
GEORGIA.....	3	1	1893	900,000	2,993,629	1,014,024	908,272	1,070,534	374,343	255,999	267,187	827,459
	3	1	1894	600,000	2,537,586	1,026,864	722,192	872,458	437,090	197,106	226,999	861,135
	4	1	1895	900,000	2,888,435	992,732	862,355	1,010,814	408,844	231,820	267,568	937,262
	5	2	1896	1,003,900	3,136,767	1,058,794	896,052	1,008,085	294,426	266,001	283,341	783,768
	5	2	1897	1,003,900	2,798,387	988,605	697,983	853,695	443,584	188,213	232,199	863,936
ILLINOIS.....	7	8	1893	1,550,000	8,065,813	2,072,744	3,546,434	3,936,418	2,340,202	202,666	1,359,693	3,902,681
	7	5	1894	1,678,800	8,053,512	2,206,245	3,446,666	3,781,822	1,917,166	185,346	1,377,985	3,420,479
	8	10	1895	1,873,800	7,453,251	1,866,972	3,237,196	3,580,941	1,776,177	210,042	1,263,212	3,249,437
	8	18	1896	2,023,800	7,363,017	1,712,616	3,292,314	3,733,199	1,844,038	224,196	1,256,197	3,324,411
	8	18	1897	2,023,800	7,468,804	1,268,998	3,875,947	4,225,918	2,255,029	282,367	1,418,193	3,995,589
INDIANA.....	3	1	1893	600,000	819,367	162,590	33,414	54,940	23,397	.....	15,500	38,827
	4	1	1894	700,000	1,012,690	166,900	180,957	234,318	91,409	36,659	70,499	198,567
	6	2	1895	1,150,000	1,510,253	235,100	301,599	388,432	181,598	19,822	94,805	287,466
	6	2	1896	1,000,000	1,286,809	147,786	297,043	381,828	139,167	49,693	103,336	202,106
	5	3	1897	800,000	1,934,094	149,122	268,161	321,018	83,823	15,074	77,100	176,057
IOWA.....	10	2	1893	1,026,500	2,775,009	681,240	1,628,353	1,823,988	900,136	89,493	820,362	1,809,901
	13	3	1894	1,526,500	3,228,051	689,796	2,006,953	2,159,825	951,802	79,305	928,290	1,959,397
	12	2	1895	1,275,000	3,638,041	676,198	1,597,877	1,797,266	742,835	79,092	701,190	1,593,457
	11	3	1896	1,400,000	3,071,906	663,842	1,581,988	1,716,767	736,772	81,040	797,929	1,605,741
	10	10	1897	1,300,000	2,811,563	614,426	1,583,670	1,716,231	719,204	14,207	798,951	1,632,362

KANSAS.....	1	..	1893	100,000	217,975	56,171	69,301	69,495	39,430	.....	.....	33,394	63,824
1894	1	..	1894	100,000	150,173	44,105	.....	.....	.....	.....	.....	.....	.....
1891	..	1	1891	.....	179,004	161,066	99,841	41,716	19,171	.....	.....	19,611	38,782
1890	..	1	1890	.....	175,545	114,101	26,811	30,500	11,449	.....	.....	15,068	26,517
1889	..	1	1889	.....	48,298	28,453	24,818	29,675	8,758	.....	2,827	15,209	26,794
KENTUCKY.....	7	5	1893	1,100,000	2,245,079	462,600	1,223,155	1,317,410	624,402	60,041	593,149	593,149	1,277,592
1894	7	6	1894	1,100,000	2,195,987	622,056	490,322	580,957	388,822	37,812	170,207	170,207	597,091
1891	7	..	1891	1,000,000	1,615,341	291,151	381,239	466,918	217,761	55,551	135,464	135,464	488,776
1890	10	..	1890	1,450,000	2,149,481	319,584	461,522	593,435	391,303	91,247	115,221	115,221	488,961
1889	12	1	1889	1,950,000	3,358,900	512,846	850,318	1,036,760	699,252	143,856	260,320	260,320	1,043,428
LOUISIANA.....	13	..	1893	3,499,450	5,238,593	262,387	3,076,628	3,265,602	1,642,902	100,698	977,593	977,593	2,721,063
1894	12	1	1894	3,510,000	4,869,164	90,387	3,655,794	3,853,706	2,212,772	97,164	901,700	901,700	3,211,095
1891	14	1	1891	3,591,593	5,400,570	132,857	3,775,427	3,022,340	1,650,054	167,846	979,054	979,054	2,795,934
1890	15	..	1890	3,590,000	5,857,667	802,122	2,704,828	2,920,432	1,434,833	196,509	1,056,623	1,056,623	2,622,764
1889	15	1	1889	3,999,400	5,808,356	421,971	2,830,625	2,999,842	1,472,928	169,493	840,950	840,950	2,483,281
MAINE.....	2	1	1893	200,000	601,494	189,773	212,420	238,886	189,784	18,000	32,094	32,094	240,778
1894	2	2	1894	200,000	622,822	226,387	213,404	225,123	175,845	20,000	37,603	37,603	233,448
1891	2	2	1891	200,000	623,865	140,898	224,480	245,099	149,511	28,000	35,470	35,470	212,981
1890	2	2	1890	200,000	588,912	199,455	229,315	246,598	154,697	24,000	50,422	50,422	229,119
1889	2	2	1889	100,000	379,523	159,716	138,771	176,544	105,798	16,000	18,587	18,587	140,385
MARYLAND.....	12	11	1893	2,370,500	7,127,425	3,440,453	900,123	1,326,769	656,573	241,722	315,033	315,033	1,307,878
1894	12	10	1894	2,370,500	7,326,693	3,600,405	856,000	1,235,932	448,959	249,541	301,954	301,954	1,035,992
1891	14	10	1891	2,670,500	7,155,318	3,549,990	666,087	1,077,776	386,101	221,327	272,139	272,139	969,902
1890	14	10	1890	2,570,705	7,260,644	3,487,243	770,139	1,157,931	382,362	275,599	323,849	323,849	981,810
1889	14	10	1889	2,570,705	7,142,038	3,205,616	819,373	1,211,349	382,242	288,314	338,250	338,250	1,008,806
MASSACHUSETTS.....	11	44	1893	5,007,200	21,093,925	6,882,128	9,741,226	10,667,614	5,472,695	2,229,791	2,224,540	2,224,540	10,787,027
1894	11	42	1894	5,007,200	22,248,709	8,675,985	9,340,773	10,223,829	4,193,420	3,015,923	2,226,603	2,226,603	9,440,052
1891	11	41	1891	5,007,200	21,424,136	8,334,661	8,572,046	9,530,640	4,572,221	2,485,852	2,402,237	2,402,237	9,008,310
1890	15	42	1890	5,807,200	22,451,548	13,747,024	9,933,174	9,882,577	5,084,501	2,664,119	2,187,215	2,187,215	9,109,834
1889	15	40	1889	5,807,200	17,787,700	7,809,057	8,697,551	9,674,748	5,084,468	2,575,116	2,137,928	2,137,928	9,797,904
MICHIGAN.....	4	2	1893	1,100,000	2,506,422	641,940	1,047,289	1,186,545	818,200	68,000	362,654	362,654	1,274,424
1894	3	2	1894	1,000,000	2,446,379	759,078	1,054,347	1,199,575	661,804	84,000	403,330	403,330	1,149,134
1891	3	3	1891	1,000,000	2,319,879	722,079	927,179	1,068,643	597,883	85,000	340,369	340,369	1,023,192
1890	3	3	1890	950,000	2,270,357	700,340	974,397	1,106,276	524,498	85,681	340,157	340,157	950,336
1889	3	2	1889	950,000	2,094,827	657,991	820,578	952,917	493,422	81,038	273,300	273,300	847,760
MINNESOTA.....	2	..	1893	700,000	2,381,666	429,312	1,514,781	1,749,921	1,200,857	60,000	536,093	536,093	1,886,959
1894	2	1	1894	700,000	2,740,277	625,475	1,836,674	1,977,451	1,158,539	94,023	387,111	387,111	1,839,664
1891	3	3	1891	1,200,000	3,524,212	606,232	2,222,956	2,449,481	1,446,001	124,799	893,336	893,336	2,404,136
1890	4	4	1890	1,250,000	3,470,169	616,254	2,059,574	2,222,986	1,018,493	121,144	655,018	655,018	1,794,655
1889	4	5	1889	1,250,090	3,026,542	573,862	1,633,858	1,771,941	928,807	73,839	581,377	581,377	1,584,023

TOTAL FIRE INSURANCE TRANSACTIONS IN THE UNITED STATES—Continued.

NAME OF STATE.	Stock Com-panies.	Mutual Com-panies.	Year Ending Dec. 31.	Capital.	Total Assets, Exclusive of Premium Notes.	Net Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Paid for Dividends.*	Expenses Other than Losses and Dividends.	Total Dis-bursements.
MISSISSIPPI.....	..	..	1893	.....	.....	.....	.....	.....	.....	.....	.....	.....
	..	..	1894	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1	..	1891	100,000	118,874	15,494	43,668	49,099	24,527	.....	17,311	41,838
	3	..	1890	400,000	497,549	47,468	174,187	199,299	71,123	.....	76,593	147,626
	4	..	1889	200,000	154,050	20,000	87,346	90,547	36,878	.....	36,859	67,737
MISSOURI.....	2	8	1893	800,000	2,481,448	711,123	1,095,533	1,118,210	648,552	72,000	423,599	1,144,081
	2	9	1892	800,000	2,543,666	872,614	1,050,945	1,156,676	576,095	66,000	469,251	1,045,346
	2	2	1891	800,000	2,374,283	807,912	851,612	986,766	119,999	79,000	369,251	986,702
	4	8	1890	1,200,000	2,968,759	999,096	1,065,659	1,212,982	473,650	75,000	468,780	1,017,430
	4	9	1889	1,200,000	2,670,609	757,634	876,104	1,018,409	593,363	75,000	422,313	990,676
NEBRASKA.....	3	1	1893	300,000	914,269	182,316	345,835	395,677	178,562	134	162,410	341,106
	3	..	1892	300,000	854,179	130,138	376,906	413,136	164,516	5,000	173,952	343,468
	3	1	1891	300,000	777,064	69,127	369,168	456,431	153,977	.....	173,209	327,186
	4	..	1890	400,000	922,073	92,485	436,682	469,178	135,620	5,000	216,548	356,568
	4	..	1889	400,000	840,316	76,283	360,607	340,399	92,804	5,000	161,873	259,677
NEW HAMPSHIRE.....	6	3	1893	1,275,000	3,588,813	608,518	2,087,007	2,285,344	1,969,419	94,099	700,996	2,164,514
	7	6	1892	1,675,000	4,366,682	722,524	2,390,927	2,580,113	1,506,314	112,867	866,393	2,495,544
	7	6	1891	1,525,000	3,916,661	692,066	2,021,909	2,293,024	1,136,300	97,375	681,685	1,915,310
	6	6	1890	1,310,000	4,186,170	579,352	1,797,025	1,967,757	1,097,090	92,531	613,430	1,803,041
	6	7	1889	1,210,000	3,156,662	593,805	1,749,346	1,900,091	1,009,542	70,366	538,082	1,617,990
NEW JERSEY.....	9	12	1893	2,395,730	7,445,997	3,044,284	2,199,388	2,488,466	1,797,399	232,708	834,535	2,774,747
	9	11	1892	2,395,730	7,746,418	3,225,719	2,239,926	2,609,135	1,486,686	245,296	815,013	2,549,998
	10	11	1891	2,555,730	8,050,348	3,223,636	2,430,728	2,510,536	1,395,366	260,393	890,600	2,483,057
	10	12	1890	2,555,730	7,693,870	3,544,865	2,067,971	2,390,424	1,177,557	266,934	778,316	2,212,477
	10	11	1889	2,505,730	7,058,186	3,349,118	1,951,940	2,369,132	1,211,877	263,229	751,768	2,222,374
NEW YORK.....	39	10	1893	16,350,000	77,057,026	22,776,954	37,684,260	40,851,239	25,107,341	2,141,107	13,263,585	40,512,033
	41	10	1892	17,950,010	83,211,718	25,801,552	38,595,768	42,136,315	23,451,782	2,313,870	13,845,492	39,611,144
	44	10	1891	17,400,010	77,700,343	23,725,104	33,727,726	36,937,069	21,123,280	2,268,217	12,366,941	35,698,421
	50	10	1890	19,010,020	67,277,791	16,990,247	33,385,863	36,609,027	18,316,450	2,241,372	11,921,370	32,479,192
	55	12	1889	21,074,020	80,419,495	16,981,746	35,423,469	38,952,869	21,973,942	2,825,457	12,610,022	37,408,982

TOTAL FIRE INSURANCE TRANSACTIONS IN THE UNITED STATES—Continued.

NAME OF STATE.	Stock Com-panies.	Mutual Com-panies.	Year Ending Dec. 31.	Capital.	Total Assets, Exclusive of Premium Notes.	Net Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Paid for Dividends.*	Expenses Other than Losses and Dividends.	Total Dis-burements.
TENNESSEE	7	..	1893	\$ 1,050,000	\$ 1,240,277	\$ -8,877	\$ 238,132	\$ 307,546	\$ 141,632	\$ 6,000	\$ 98,826	\$ 239,458
	10	..	1892	1,395,000	1,614,142	30,085	430,829	669,566	449,642	25,500	234,248	709,490
	10	..	1891	1,250,000	1,721,103	75,274	499,933	699,830	376,974	54,000	227,811	658,765
	11	..	1890	1,050,000	2,189,303	166,741	545,359	735,262	234,184	86,075	273,151	593,410
	13	..	1889	1,850,000	1,959,734	77,578	360,422	484,820	180,420	47,000	168,274	395,694
TEXAS	1	..	1893	200,000	291,054	-29,864	126,674	144,574	105,813	..	57,915	163,728
	1	..	1892	200,000	302,126	2,245	127,411	143,834	85,545	..	37,597	123,072
	2	..	1891	200,000	397,641	4,917	122,276	139,456	53,388	12,500	34,012	99,000
	2	..	1890	200,000	348,810	1,527	45,834	131,873	14,480	..	19,888	34,368
	3	..	1889	345,000	373,399	5,652	139,560	153,598	115,183	..	58,185	173,368
UTAH	1	..	1893	250,000	345,705	51,339	31,949	72,676	7,486	18,750	38,008	58,244
	1	..	1892	250,000	349,048	47,815	47,735	76,377	3,056	25,000	23,810	51,266
	1	..	1891	250,000	312,943	37,226	..	43,298	..	..	..	37,712
VERMONT	2	2	1893	225,000	344,711	69,482	236,011	241,827	143,989	9,937	60,624	222,660
	1	2	1892	125,000	252,862	55,877	204,959	212,090	129,064	9,620	70,238	208,022
	1	2	1891	125,000	216,316	55,784	237,304	271,934	172,261	4,803	37,070	213,084
	1	1	1890	125,000	164,198	5,974	60,110	70,668	37,124	1,224	17,211	55,559
	1	2	1889	125,000	162,671	6,690	34,065	55,220	24,127	2,404	17,719	44,250
VIRGINIA	7	2	1893	981,275	3,355,249	1,280,847	819,302	993,959	649,219	56,696	201,444	997,359
	7	1	1892	1,044,475	3,771,948	1,360,973	922,571	1,219,489	577,658	63,766	304,752	946,535
	8	2	1891	1,034,850	3,554,043	1,239,433	755,000	958,267	434,448	59,599	270,534	770,534
	7	3	1890	871,414	2,268,078	1,202,034	547,045	717,541	351,745	59,376	273,195	615,296
	7	2	1889	731,275	2,927,794	1,136,810	442,625	600,090	311,859	54,233	173,911	545,393
WASHINGTON	..	..	1893	..	..	..	..	..	..	..	..	..
	2	..	1892	..	448,168	..	..	..	..	..	..	..
	4	..	1891	350,000	905,179	84,058	35,500	35,500	1,322	..	18,500	19,822
	4	1	1890	797,300	50,121	..	60,487	79,401	19,086	12,000	35,146	66,232
	4	..	1889	575,000	186,215	34,597	44,769	46,168	4,579	..	18,649	23,228
WEST VIRGINIA	7	..	1893	700,000	862,019	109,557	179,184	197,574	112,880	20,000	48,045	180,925
	5	..	1892	600,000	739,945	107,190	202,450	226,189	127,967	26,000	50,024	204,001
	6	..	1891	651,710	851,765	100,293	191,002	209,104	121,790	14,000	65,618	201,414
	7	..	1890	600,000	861,378	119,279	303,777	329,593	185,653	28,000	91,607	328,260
	9	..	1889	900,000	868,950	117,908	284,845	313,085	154,916	27,000	82,085	263,941

RECAPITULATION OF STATISTICS OF AMERICAN AND FOREIGN STOCK FIRE AND MARINE INSURANCE COMPANIES.

WISCONSIN	3	2	1893	1,000,000	4,346,237	1,477,766	2,015,208	2,221,341	1,243,154	86,621	819,075	2,148,850
1894	3	2	1894	1,000,000	4,551,758	1,691,507	1,881,967	2,088,014	1,000,544	136,637	751,140	1,888,321
1891	3	3	1891	1,000,000	4,310,311	1,695,449	1,667,072	1,858,445	815,413	139,499	751,140	1,611,515
1890	3	3	1890	1,000,000	4,340,044	1,541,202	1,421,774	1,792,858	795,947	122,120	562,868	1,630,259
1889	3	7	1889	1,000,000	3,838,982	2,066,193	1,781,252	2,045,293	1,038,593	187,888	691,258	1,917,649
FOREIGN COMPANIES.....	49	..	1893	..	65,680,493	23,160,843	47,846,117	49,916,724	32,632,447	..	15,103,727	47,756,174
1892	50	..	1892	..	64,320,491	24,812,186	40,463,702	46,380,005	28,982,112	..	14,680,573	43,642,085
1891	51	..	1891	..	59,311,593	23,851,244	40,818,547	42,397,814	24,882,108	..	13,225,292	38,107,400
1890	43	..	1890	..	56,107,990	25,826,494	36,606,939	38,143,336	19,624,922	..	11,642,885	31,179,368
1889	39	..	1889	..	44,862,466	20,526,358	27,732,246	30,231,686	20,293,876	..	9,691,975	28,996,136
Aggregates (489 Co's).....	301	188	1893	72,620,565	331,196,624	98,373,589	164,463,648	178,971,022	108,879,368	12,383,914	54,764,597	176,450,207
Aggregates (491 Co's).....	307	184	1892	70,295,790	342,235,554	109,518,324	164,461,758	179,044,675	98,874,069	12,911,363	55,009,036	167,025,143
Aggregates (523 Co's).....	344	179	1891	80,605,800	321,920,133	105,610,595	148,794,302	163,672,514	86,375,105	12,479,920	50,993,051	159,900,535
Aggregates (580 Co's).....	366	214	1890	86,732,164	322,677,835	108,734,281	143,345,527	157,857,983	75,334,517	12,946,129	49,818,592	138,419,146
Aggregates (610 Co's).....	384	226	1889	92,460,155	314,704,701	103,563,192	133,485,677	148,915,710	84,345,369	12,614,921	46,338,603	142,866,795

— Impairment.

† Returns incomplete.

* Includes amount returned to policyholders.

NAME OF STATE.	Year Ending Dec. 31.	No. of Companies.	Capital.	Total Assets, Exclusive of Premium Notes.	Net Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disbursements.
Alabama.....	1893	5	\$ 650,000	\$ 908,682	\$ 9,271	\$ 91,194	\$ 241,704	\$ 134,108	\$ 38,880	\$ 83,628	\$ 256,616
1892	4	4	849,400	1,327,458	71,950	422,671	505,686	238,808	47,899	174,920	401,557
1891	7	7	550,000	850,639	76,404	156,144	213,794	86,440	22,200	73,161	181,861
Arkansas.....	1893	1	64,875	98,619	7,808	28,399	33,898	9,689	..	13,298	22,987
1892	1	1	59,950	89,561	5,561	27,190	21,863	11,863	† 14,950	6,697	18,560
1891	1	1	59,950	80,263	6,581	14,545	20,556	16,299	..	..	16,299
California.....	1893	4	1,800,000	5,154,344	1,071,119	2,998,080	3,334,822	1,858,590	198,054	1,100,751	3,157,395
1892	5	5	2,200,000	5,802,255	1,037,218	3,810,185	4,086,099	2,188,057	199,802	1,451,947	3,839,866
1891	7	7	3,550,000	7,721,840	1,119,236	4,326,026	4,671,356	2,615,988	346,685	1,726,401	4,689,074

† Stock dividend.

RECAPITULATION OF STATISTICS OF AMERICAN AND FOREIGN STOCK FIRE AND MARINE INSURANCE COMPANIES—Cont.

NAME OF STATE.	Year Ending Dec. 31.	No. of Companies.	Capital.	Total Assets, Exclusive of Premium Notes.	Net Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disbursements.
			\$	\$	\$	\$	\$	\$	\$	\$	\$
Colorado	1893	...	...	...	...	...	...	...	...	...	...
	1892	1	200,000	275,486	31,245	47,149	66,047	33,206	...	13,846	47,052
	1891	1	200,000	302,826	10,497	87,079	109,159	96,560	...	56,347	152,997
Connecticut.....	1893	8	10,000,000	32,456,331	6,868,603	17,012,117	18,508,956	10,874,102	1,484,477	5,584,447	17,043,026
	1892	8	10,550,000	32,856,910	8,410,777	16,214,224	17,596,495	9,614,170	1,540,000	5,407,881	16,562,051
	1891	8	10,550,000	31,492,760	8,883,174	14,051,035	15,357,629	8,460,878	1,554,000	4,749,059	14,709,937
District of Columbia.....	1893	112	1,300,500	2,389,934	997,789	215,045	344,810	75,611	109,167	112,281	297,059
	1892	11	1,200,500	2,194,258	836,521	196,339	310,219	47,121	97,090	100,886	244,097
	1891	9	1,025,000	1,742,169	468,748	144,579	219,097	26,141	75,000	61,733	162,874
Georgia.....	1893	3	900,000	2,036,726	370,735	648,759	768,108	320,656	108,009	201,803	630,468
	1892	3	650,000	1,622,198	358,210	468,117	561,323	320,177	42,009	161,805	523,991
	1891	4	900,000	1,915,368	297,551	617,000	711,031	342,281	56,062	234,220	632,593
Illinois.....	1893	7	1,550,000	6,973,480	1,577,496	3,063,748	3,411,504	1,980,697	169,950	1,230,202	3,380,939
	1892	8	1,683,800	7,305,978	1,725,679	3,056,253	3,339,589	1,661,103	165,824	1,210,589	3,040,516
	1891	8	1,873,800	6,803,539	1,419,830	2,882,128	3,193,332	1,591,059	187,904	1,175,105	2,954,068
Indiana.....	1893	13	600,000	655,666	7,438	15,617	16,784	10,566	...	5,508	16,074
	1892	4	700,000	858,125	73,545	158,808	201,378	85,735	32,500	57,516	175,516
	1891	6	1,150,000	1,348,811	73,708	269,648	355,635	155,983	16,500	87,316	250,799
Iowa.....	1893	10	1,026,500	2,689,463	608,654	1,519,703	1,640,540	801,587	86,500	751,610	1,639,697
	1892	13	1,526,500	3,125,819	614,496	1,789,751	1,919,518	840,924	77,000	821,537	1,739,462
	1891	12	1,275,000	3,573,663	649,739	1,470,671	1,666,860	683,212	79,595	714,035	1,456,572
Kansas.....	1893	1	100,000	217,975	56,171	69,301	69,495	30,430	...	33,394	63,824
	1892	1	100,000	150,173	42,106	...	...	...	...	...	...
	1891	..	...	...	...	...	...	...	...	...	...
Kentucky.....	1893	7	1,100,000	2,041,280	306,035	1,201,637	1,283,252	612,033	58,745	578,591	1,249,369
	1892	7	1,100,000	1,769,880	384,553	436,106	514,757	353,275	77,537	150,055	540,867
	1891	7	1,000,000	1,615,341	291,655	381,239	466,918	217,701	55,551	135,404	408,776
Louisiana.....	1893	13	3,409,450	5,218,593	262,387	3,076,628	3,263,622	1,624,022	100,628	977,523	2,721,063
	1892	12	3,510,000	4,799,827	68,703	2,600,218	2,801,913	2,176,910	97,104	888,908	3,163,072
	1891	14	3,591,503	5,378,848	127,742	2,732,816	3,018,856	1,612,061	167,846	968,244	2,778,151

Maine.....	1893	2	200,000	532,821	121,100	216,967	233,952	188,208	18,000	32,230	238,447
	1892	2	200,000	535,318	149,100	197,366	213,862	164,584	20,000	30,245	214,859
	1891	2	200,000	535,347	127,321	200,516	223,652	130,597	28,000	29,448	191,015
Maryland.....	1893	12	2,370,500	4,671,849	1,631,830	711,171	935,067	473,030	200,568	277,117	948,716
	1892	12	2,370,500	4,747,817	1,747,890	655,827	886,943	315,379	193,552	246,930	756,380
	1891	12	2,670,500	4,623,377	1,720,349	484,827	764,775	275,824	172,148	186,803	725,110
Massachusetts.....	1893	11	5,007,200	10,582,067	1,809,948	4,429,915	4,864,468	3,227,828	319,343	1,380,991	5,028,162
	1892	11	5,007,200	11,339,495	2,598,231	4,515,327	4,915,508	2,818,014	373,220	1,405,048	4,596,322
	1891	11	5,007,200	11,002,931	2,442,300	4,190,146	4,660,085	2,751,680	382,235	1,315,488	4,449,403
Michigan.....	1893	4	1,100,000	2,414,882	591,114	943,728	1,068,237	728,802	68,000	340,048	1,146,850
	1892	3	1,000,000	2,357,202	693,674	668,051	1,106,208	630,395	84,000	352,739	1,067,134
	1891	3	1,000,000	2,272,186	681,247	684,884	1,004,579	545,052	85,000	321,537	951,569
Minnesota.....	1893	2	700,000	2,381,666	490,312	1,514,781	1,749,931	1,290,857	60,000	536,093	1,886,950
	1892	2	700,000	2,556,505	603,104	1,622,011	1,829,646	1,105,198	60,000	552,362	1,717,500
	1891	3	1,200,000	3,335,859	645,518	2,182,473	2,616,245	1,396,908	93,000	781,886	2,272,894
Mississippi.....	1893	..	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1892	..	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	1	100,000	118,874	15,494	43,628	49,099	21,527	.....	17,311	41,838
Missouri.....	1893	2	800,000	2,069,914	378,344	921,522	1,019,821	598,058	72,000	338,264	1,008,322
	1892	2	800,000	2,125,014	531,804	859,194	955,994	477,414	66,000	316,312	859,726
	1891	2	800,000	1,986,447	509,728	732,738	831,811	460,455	72,000	286,093	818,548
Nebraska.....	1893	3	300,000	875,915	145,658	336,172	383,631	173,397	.....	155,895	329,292
	1892	3	300,000	854,179	130,138	376,995	413,136	164,516	5,000	173,752	343,468
	1891	3	300,000	773,874	77,863	367,670	449,359	152,327	.....	170,977	323,304
New Hampshire.....	1893	6	1,275,000	3,423,944	560,500	1,910,516	2,081,261	1,262,056	82,100	651,830	1,995,086
	1892	7	1,675,000	4,122,590	649,591	2,186,855	2,374,242	1,364,021	101,791	727,944	2,213,756
	1891	7	1,545,000	3,674,700	599,798	1,854,215	2,122,284	1,043,031	87,600	636,329	1,762,900
New Jersey.....	1893	9	2,305,730	7,006,459	2,628,893	2,060,097	2,396,742	1,599,185	231,540	811,549	2,642,274
	1892	9	2,305,730	7,286,198	2,784,411	2,131,399	2,476,100	1,402,044	211,183	704,554	2,437,781
	1891	10	2,555,730	7,621,959	2,934,776	2,066,352	2,418,912	1,354,368	246,555	814,949	2,415,872
New York.....	1893	39	16,350,000	62,131,403	12,434,728	31,937,972	35,417,780	21,906,980	1,613,635	12,331,458	35,852,073
	1892	41	17,950,010	67,577,742	15,811,632	33,261,880	36,040,258	23,974,704	1,758,271	12,935,466	35,068,441
	1891	44	17,400,010	63,399,659	15,135,826	28,554,043	30,994,813	17,559,190	1,679,767	11,436,882	30,675,839
North Carolina.....	1893	† 2	83,960	214,116	43,285	12,018	15,553	6,000	2,868	3,886	12,784
	1892	2	170,000	345,621	10,688	* 10,065	* 12,399	* 3,601	* 1,469	* 2,976	* 8,046
	1891	2	50,000	222,559	4,114	5,735	8,721	2,537	75	1,861	4,473

* For less than full number of companies. † Business of eleven companies. ‡ Business of one company.

RECAPITULATION OF STATISTICS OF AMERICAN AND FOREIGN STOCK FIRE AND MARINE INSURANCE COMPANIES—Cont.

NAME OF STATE.	Year Ending Dec. 31.	No. of Companies.	Capital.	Total Assets, Exclusive of Premium Notes.	Net Surplus.	Cash Premiums Received.	Total Cash Income.	Paid for Losses.	Paid for Dividends.	Expenses Other than Losses and Dividends.	Total Disbursements.
			\$	\$	\$	\$	\$	\$	\$	\$	\$
North Dakota.....	1893	..	.....	119,819	12,921	.....	.....	.....	.....	.....	.....
	1892	1	100,000	100,000	20,470	11,262	24,108	60	.....	1,125	1,185
	1891	1	100,000	122,922	.....	.....	.....	.....	.....	.....	.....
Ohio.....	1893	14	1,750,000	3,443,111	837,166	941,600	1,102,200	553,098	146,830	385,178	1,085,106
	1892	14	2,200,000	4,255,158	1,106,154	1,265,977	1,460,902	771,032	184,737	452,539	1,417,212
	1891	23	2,550,000	6,284,524	1,426,244	2,043,743	2,323,180	1,246,223	177,999	721,579	2,146,131
Oregon.....	1893	2	417,700	590,928	57,131	354,080	374,751	109,922	10,000	243,357	363,270
	1892	3	491,950	699,301	80,622	385,909	420,147	127,051	10,000	260,604	397,745
	1891	4	700,050	1,072,217	216,163	466,901	516,129	106,170	32,668	178,088	316,866
Pennsylvania.....	1893	38	12,052,875	41,321,698	7,087,210	17,134,492	19,044,566	12,985,459	1,204,361	5,996,306	20,186,126
	1892	38	12,102,875	42,594,657	8,506,713	17,432,061	19,397,510	11,314,813	1,228,205	6,006,607	18,550,905
	1891	40	12,252,875	41,091,331	8,620,151	15,282,607	17,232,639	10,215,229	1,475,364	5,447,496	17,138,089
Rhode Island.....	1893	3	900,000	2,230,709	87,394	1,474,163	1,559,262	1,238,321	14,652	518,829	1,771,802
	1892	3	900,000	2,487,844	166,156	1,866,312	1,995,471	1,374,831	26,689	647,223	2,018,746
	1891	3	900,000	2,520,869	204,165	1,928,605	2,025,669	1,233,675	44,304	680,755	1,958,734
South Carolina.....	1893	..	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1892	..	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	1	60,222	87,757	9,183	.....	.....	.....	.....	.....	.....
South Dakota.....	1893	1	100,000	147,201	.....	597	25,442	14,886	.....	8,983	23,869
	1892	..	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	3	265,000	415,332	35,439	177,334	203,343	72,395	6,333	93,136	171,864
Tennessee.....	1893	7	1,050,000	1,240,277	8,877	238,132	307,546	141,632	6,000	98,226	239,458
	1892	10	1,305,000	1,614,122	30,685	430,829	669,566	440,642	25,500	234,348	723,490
	1891	10	1,250,000	1,721,163	75,274	499,933	639,830	376,974	54,000	277,811	658,785
Texas.....	1893	1	200,000	291,054	29,864	126,674	144,574	105,813	.....	57,915	163,728
	1892	1	200,000	302,126	2,245	127,411	143,834	85,545	.....	37,597	123,072
	1891	2	300,000	397,641	4,017	122,276	139,456	53,388	12,500	34,012	99,900
Utah.....	1893	1	250,000	345,795	51,339	31,999	72,676	7,486	18,750	32,008	58,244
	1892	1	250,000	340,948	47,815	47,735	76,377	3,056	25,000	23,210	51,266
	1891	1	250,000	312,943	37,226	.....	43,298	.....	.....	.....	37,712

Vermont.....	1893	2	225,000	278,602	5,173	55,624	60,426	20,311	.....	39,697	60,008
	1892	1	154,837	154,837	—3,194	26,382	26,382	15,703	.....	10,494	26,197
	1891	1	125,000	155,656	—3,201	36,003	40,453	20,411	1,050	11,763	32,174
Virginia.....	1893	7	981,275	2,315,056	250,110	744,269	873,528	594,818	55,568	264,317	914,703
	1892	7	1,044,475	2,743,364	351,321	852,153	991,213	535,219	62,758	276,795	876,824
	1891	8	1,034,850	2,499,794	290,015	682,117	839,922	381,598	58,521	250,388	690,507
Washington.....	1893	..	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1892	..	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1891	2	350,000	448,108	84,058	35,500	35,500	1,302	.....	18,500	19,802
West Virginia.....	1893	† 7	700,000	862,019	109,557	179,184	197,574	112,880	20,000	48,045	180,925
	1892	5	500,000	739,915	107,190	202,450	226,189	127,967	26,000	50,034	204,001
	1891	7	616,710	851,785	106,223	191,902	209,164	121,796	14,000	65,618	201,414
Wisconsin.....	1893	3	1,000,000	4,345,543	1,341,055	1,979,292	2,177,864	1,219,672	85,092	806,153	2,111,817
	1892	3	1,000,000	4,377,027	1,555,718	1,853,444	2,048,445	982,235	135,992	739,871	1,858,098
	1891	3	1,000,000	4,130,532	1,574,919	1,599,072	1,762,526	762,427	132,007	635,845	1,530,279
Totals, American stock companies.....	1893	252	72,620,565	214,579,032	42,600,350	99,234,093	109,024,535	67,019,670	6,584,657	36,030,111	109,627,440
	1892	256	76,145,790	225,151,804	51,340,133	99,992,140	109,978,380	62,485,268	6,910,447	36,478,393	105,868,994
	1891	293	80,605,800	214,942,393	50,967,091	92,040,719	102,755,637	56,307,175	7,441,898	34,446,024	98,321,894
Foreign companies.....	1893	49	.....	66,026,631	23,395,678	47,918,936	49,996,375	32,652,740	.....	15,161,860	47,814,600
	1892	50	.....	64,302,995	24,812,186	46,409,694	48,326,057	28,962,112	.....	14,680,573	43,042,685
	1891	51	.....	59,311,593	23,851,244	40,818,547	42,397,814	24,882,108	.....	13,225,292	38,107,400
Totals, stock companies.....	1893	301	72,620,565	280,605,663	65,996,028	147,153,029	159,020,910	99,672,410	6,584,657	51,191,971	157,442,040
	1892	306	76,145,790	289,454,799	76,152,319	146,401,894	158,304,437	91,427,380	6,910,447	51,158,666	149,511,679
	1891	344	80,605,800	274,254,910	74,816,335	132,859,266	145,153,451	81,169,263	7,441,898	47,671,316	136,429,294

† Business of three companies. — Impairment.

RECAPITULATION OF STATISTICS OF MUTUAL FIRE INSURANCE COMPANIES OF THE UNITED STATES.

NAME OF STATE.	Year Ending Dec. 31.	No. of Companies.	Cash Admitted Assets.	Net Cash Surplus.	Cash Premiums Received.	Total Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
			\$	\$	\$	\$	\$	\$	\$	\$
Colorado.....	1893 1892	1	1,523	—8,936	2,212	2,242	81	.....	932	1,013
Connecticut.....	1893 1892 1891	8 8 8	1,559,639 1,693,443 1,567,857	1,215,600 1,263,156 1,241,013	196,834 189,450 179,492	287,361 871,738 254,200	126,949 130,811 93,938	.....	94,545 87,110 85,784	221,494 217,927 179,722
Delaware.....	1893 1892 1891	4 4 4	597,957 724,194 453,804	485,125 486,386 435,663	89,885 87,934 88,413	114,267 112,382 116,118	39,567 62,372 58,952	31,680 24,161 35,250	23,545 23,542 23,223	97,902 112,847 124,988
District of Columbia.....	1893 1892	1 1	339,081 316,658	.....	24,678 23,338	40,687 92,645	10,880 8,148	12,531 12,474	8,826 8,659	32,246 91,181
Georgia.....	1893 1892 1891	1 1 1	886,993 915,388 973,127	643,289 668,654 695,181	259,513 254,675 245,355	302,426 234,675 299,783	53,687 116,853 66,563	147,920 155,097 175,758	65,384 311,144 62,378	266,991 307,144 334,699
Illinois.....	1893 1892 1891	8 4 5	1,092,333 718,379 979,721	495,248 463,061 447,142	482,686 334,135 355,068	525,914 417,694 387,669	359,595 241,494 185,118	32,746 19,449 22,144	129,401 91,964 88,107	521,742 363,956 295,369
Indiana.....	1893 1892 1891	1 1 2	163,791 154,565 161,442	155,152 93,375 161,392	17,767 22,149 31,951	36,156 32,940 32,797	12,741 5,674 25,615	.....	10,012 12,083 7,489	22,753 22,816 27,667
Iowa.....	1893 1892 1891	2 3 2	85,546 92,232 64,978	72,586 75,212 46,459	178,650 216,299 127,006	183,448 220,307 130,376	98,549 110,938 79,623	2,993 2,305 167	68,752 106,693 47,095	170,204 219,693 126,885
Kansas.....	1893 1892	..	.....	.....	.....	.....	.....	.....	.....	.....
Kentucky.....	1893 1892 1891	5 6 1	203,799 406,107 172,004	156,565 237,212 161,026	21,518 54,216 29,841	34,158 66,200 41,716	12,369 35,547 19,171	1,296 275	14,558 20,152 19,611	28,223 56,224 38,782

Louisiana.....	1893	1	9,347	8,316	35,577	35,763	35,866	12,762	48,024
	1892	1	21,722	5,115	42,611	43,484	7,973	10,810	18,763
Maine.....	1893	1	68,673	68,673	1,453	4,934	1,576	755	2,331
	1892	2	93,574	77,287	16,038	22,235	11,261	7,358	18,619
	1891	2	88,518	13,517	17,964	21,447	12,914	6,022	18,936
Maryland.....	1893	11	2,514,576	1,868,729	188,952	401,702	183,483	39,916	359,162
	1892	10	2,559,046	1,854,501	200,173	348,989	133,571	55,979	279,612
	1891	10	2,534,941	1,822,641	171,200	313,001	110,277	85,336	244,792
Massachusetts.....	1893	44	10,511,858	5,079,190	5,311,311	5,803,046	2,144,867	2,510,448	5,758,865
	1892	42	10,909,214	6,077,754	4,825,446	5,318,321	1,375,372	2,642,713	831,615
	1891	41	10,421,205	5,892,361	4,381,900	4,876,555	1,766,541	2,103,617	748,749
Michigan.....	1893	2	91,540	59,826	103,555	118,368	86,018	22,666	127,574
	1892	2	89,177	66,004	85,396	93,367	31,409	50,591	82,000
	1891	2	47,693	40,832	52,295	64,604	53,381	18,772	71,603
Minnesota.....	1893	1	183,712	5,371	144,663	147,805	53,332	34,023	122,104
	1892	2	188,353	14,714	120,483	203,236	49,093	110,350	191,242
Missouri.....	1893	8	411,534	322,779	174,011	138,389	50,494	85,265	135,759
	1892	9	418,882	340,810	177,451	200,882	92,081	92,939	185,620
	1891	8	397,836	298,253	118,874	149,155	58,544	103,610	162,154
Nebraska.....	1893	1	38,354	36,658	9,663	12,016	5,165	6,515	11,814
	1892	1	3,190	—8,736	1,498	7,072	1,650	2,232	3,882
New Hampshire.....	1893	3	164,869	39,018	168,391	174,083	107,363	49,166	168,528
	1892	6	244,092	72,933	204,072	213,871	142,293	58,393	211,768
	1891	6	241,901	52,268	167,094	175,740	93,269	49,306	152,350
New Jersey.....	1893	12	439,468	415,391	60,201	91,724	108,144	22,986	132,473
	1892	11	420,220	441,208	108,539	132,975	87,645	20,459	112,217
	1891	11	449,284	418,859	70,374	100,624	40,938	5,651	67,185
New York.....	1893	10	14,925,623	10,342,225	4,746,288	5,435,450	3,200,361	527,472	4,659,960
	1892	10	15,633,976	9,986,923	5,333,888	6,096,057	2,477,078	555,599	3,042,703
	1891	10	14,300,674	8,589,338	5,203,683	5,942,256	3,564,090	528,440	5,022,582
Ohio.....	1893	10	2,323,234	879,102	572,997	755,512	618,165	32,405	998,997
	1892	10	2,506,837	791,411	1,119,070	1,256,900	1,004,254	24,419	1,621,179
	1891	10	1,228,161	759,541	315,419	375,434	182,734	22,312	328,473

— Impairment.

RECAPITULATION OF STATISTICS OF MUTUAL FIRE MARINE INSURANCE COMPANIES IN THE UNITED STATES.—*Cont.*

NAME OF STATE.	Year Ending Dec. 31.	No. of Companies.	Cash Admitted Assets.	Net Cash Surplus.	Cash Premiums Received.	Total Income.	Paid for Losses.	Returned to Policyholders.	Other Expenses.	Total Disbursements.
Pennsylvania.....	1893 1892 1891	33 29 26	9,071,562 8,995,666 8,562,017	7,211,078 7,078,356 6,653,767	1,056,372 1,037,940 871,307	1,533,036 1,544,464 1,326,074	698,958 542,421 526,883	254,960 234,770 171,704	\$ 336,148 317,902 338,755	\$ 1,402,347 1,206,084 1,037,342
Rhode Island.....	1893 1892 1891	15 16 16	3,876,038 4,047,587 3,739,883	1,674,611 2,027,746 1,855,038	3,412,190 3,194,544 2,999,650	3,605,101 3,368,455 3,259,347	1,086,310 551,426 931,049	2,178,819 2,198,407 1,867,817	338,761 321,190 290,955	3,603,825 3,080,584 3,086,821
South Carolina.....	1893 1892 1891	1 1 1	26,154 23,622 11,202	..... ..... .....	1,494 1,551 1,914	2,641 2,443 3,140	66 253 470	808 465 717	1,177 1,180 1,117	2,051 1,898 2,304
South Dakota.....	1893 1892 1891	.. .. 2	..... ..... 62,006	..... ..... 27,950	...............	...............	...............	...............	...............	...............
Vermont.....	1893 1892 1891	2 2 2	66,109 79,294 60,660	64,399 59,071 58,985	180,559 193,518 200,761	181,573 176,799 201,511	123,678 109,936 151,850	9,037 9,620 3,753	30,109 54,071 25,907	162,824 173,627 181,510
Virginia.....	1893 1892 1891	2 1 2	1,040,193 95,434 1,054,249	1,030,737 95,434 949,418	75,033 35,193 72,883	120,431 51,363 118,345	54,401 21,834 52,850	1,128 1,008 1,008	27,127 8,615 26,169	82,656 31,754 80,027
Wisconsin.....	1893 1892 1891	2 2 3	180,694 174,131 179,789	136,711 135,789 120,523	35,916 31,523 68,000	43,477 39,569 75,919	23,482 18,309 52,986	609 645 7,422	12,922 11,269 20,828	37,033 30,223 81,236
Totals, mutual companies.....	1893 1892 1891	188 184 179	50,500,691 51,482,210 47,666,217	32,377,561 32,481,358 30,792,260	17,310,619 17,998,390 15,935,036	19,950,112 20,577,111 18,519,063	9,200,958 7,400,855 8,185,822	5,799,257 5,990,813 5,038,022	3,572,666 3,707,884 3,231,735	19,008,167 17,420,850 16,471,241

INSURANCE AGENTS.

A DIRECTORY OF AGENTS REPRESENTING ALL BRANCHES OF INSURANCE
IN THE PRINCIPAL CITIES AND TOWNS OF THE
UNITED STATES AND CANADA.

EXPLANATION.—In this Directory the letters following the names denote the specialty of the Agent, viz.: f—Fire, l—Life, m—Marine, a—Accident, c—Casualty, pg—Plate Glass, sb—Steam Boiler, s—Surety, ls—Live stock, h—Hall, t—Tornado.

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ALEXANDER CITY

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ANNISTON

Cosfield C. *l*
Crook & Burke *f*
Ingram & Co. *f*
Keith, Smith & Co. *f l*
Parker O. H. & Co. *a pg sb*
Turner & Goodwin *f l pg a*
Wellborn M. B. *f*

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Chandler W. P. *f l*
Frost Clarence E. *f*
Glaze S. S. *f*
Sanders Benton *f*
Turrentine John Jas. *f*

AUBURN

Burton R. W. *f*
Glenn E. T. *f*

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Dickinson F. B. *f a l pg*
Hard Chas. F. & Co. *f*
Hard Jas. *l a*
Sewall N. H. *f*

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Allison Geo. D. *l a*
Clarke Louis V. & Co. *f a s*
sb c

Cobbs J. B. *l*
Crowder & Co. *f*
Dangaix W. J. & Co. *f a pg*
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Eustis Geo. & Co. *f a pg*
Fraleigh I. L. *f l*
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Guenther G. A. *l*
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Huffman & Lee *l*
Leedy W. B. & Co. *f*
Malone & Mayberry *f*
Maury R. F. & Co. *f s c a*
Meade Smith & Co. *f*
Moore & Lee *l*
Moore & Pedley *f*
Ratiff & Guenther *l*
Simonds Hard *l*
Smith J. G. & Co. *f pg*
Slaton Hardman & Co. *f*
Warren Edw. *f*
Wilson J. T. *f*

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Luttrell O. F. *f*
Mathis H. M. *f*
Rabb J. M. *f*
Rankin C. F. *f*

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Bloch S. D. *f l*
Hunter J. S. *l*

CLAYTON

Perkins L. H. *f l*

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Hooten & Campbell *f*
Searcy J. E. *l*
Walker C. E. *f l t*

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Chardavoyne E. V. *f*
Hall L. G. *f*
Hawkins P. P. *a*

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Brown Chas. *f*
Parker & Co. *f*
Prinz G. A. *f*
Richard Wm. *f l*

DADEVILLE

Berkstreaser J. B. *l a*
Berkstreaser & Salmon *f a*

DECATUR

Burch & Wyatt *f l pg s c sb t*
Fenn E. J. *f*
Lampkin A. B. & Co. *f l*
Murray A. F. *f l a*
Polk W. J. *f*
Scott, Allison & Co. *f l a s b*
pg t m

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First Nat. Bank *f l*
Prout & Robertson *f l*
Sharpe A. V. *f l*
Welch W. H. *f*

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Daniel C. P. S. *f*
Dean L. Y. & Co. *f t*
Goethius C. B. *l a s c pg*
Guice B. L. *f l a*
Pitts J. L. & Co. *f l a*
Young E. B. & Co. *f l a*

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O'Connor E. T. *f*
Wilson E. *f*

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Atkinson W. D. *f l a*
Hickox Fred L. *f l*

FORT PAYNE

Albert C. S. *f*
Sawyer C. M. T. *f*

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Foster M. L. *f a*
Goodhue D. P. *f*
Thomas & Lay *f l a*

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Lawson L. *f*
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Howze H. Y. *f*
Huey B. M. *f*
Lovelace W. H. *f*
Palmore W. R. & Son *f*

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Bragg & Bowles *f*
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Mayers S. K. *l*
Moore Barnes *l*

Moore J. Collin *l*
Outlaw, T. G. & Co. *f*
Sage, Baker & Co. *f*
Thames & Batte *f l m a*
Tam & Dorr *f*
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Wheeler & Du Mont *f l a s*

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Chandler & Jones *f*
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Sweet M. M. *f*
Thornton A. J. *a*

Augustus Thilfelder,

General Agent

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INSURANCE CO., LTD.

TENNESSEE AND ALABAMA

Walker A. A. *l*

James S. Willcox

General Agent

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FOR ALABAMA.

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Berkstresser J. B. *f*

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McConnell & Boynton *f l t*
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Stone J. E. *f a*
Thornton W. T. *f a*

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Hogan A. P.
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Keller H. C. *l a p g t*
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Stakeley J. O. *f*

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Kales M. W. *f*
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Vickers J. V. *f l a*

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Bruley & Holcomb *f*
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Weaver & Morrow *l a*

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King Bros. *f l l a*

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Kitchens Silas D. *f a*
Nelson W. L. & Co. *f l m t*
Nelson W. P. *f l l*
Stone & Walter *f l l a p g m*

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Bridewell C. A. *f*

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Birdseye T. S. *f*
DeForest G. L. & Co. *f**a*
Downs C. N. *f*
Simmons F. W. *f**a**l**gg**t*

BRIDGEPORT

Bartram A. E. *f*
Blackman H. L. *f*
Burr & Knapp *f*
Callahan E. A. *l*
Carlin L. S. *f*
Crouch Wm. *f*
Disbrow Wm. E. *f*
Downs C. G. *l*
Fairchild A. B. *f*
Fairchild E. W. *f*
French C. S. *f*
Garner & Son *f*
Goodsell G. W. & Son *f*
Goodsell, McNeil & Co. *f*
Goodsell Z. *f*
Green W. F. *l*
Griesinger Wm. *f*
Higby & DeForrest *f*
Johnson J. W. *f*
Lineburgh W. G. & Son *f*
Lowth S. & Co. *f*
Lyon L. H. *f*
Marsh, Merwin & Len-
non Fire Insurance

Mead W. C. *f*

Noble J. F. *f*

Northrop J. J. *a*

Osborne S. C. *f*

Peasfield *f*

Pheland Bros. *f*

Prindle & Cole *f*

Saabye E. L. & Co. *f*

Scribner H. H. *f*

Smith F. C. *f*

Smith J. H. *l*

Staples James & Co. *f*

Watson T. L. W. & Co. *f*

Whipple F. C. *l*

Whittlesley R. E. *l*

Wild J. *f*

Wordin T. C. *f**l*

BRISTOL

Beers G. A. *a**f**l**gg*

Mason C. V. *f**a**l**gg*

Peck M. L. *f*

Peck M. L. & E. *a*

BROOKLYN

Palmer Jas. C. *f*

Sibley P. B. *f*

COLCHESTER

Adams Wm. P. *f*

Baker A. A. *f*

Buell & Willard *f**a**l**gg**t*

Strong P. R. *f*

COLLINSVILLE

Beauchemin C. *l*
Lyon S. J. *f*
Perry O. F. *f*
Thayer A. L. *f*
Williams H. A. *f*

DANBURY

Buckley N. T. *f*
Crofut H. *l**gg*
Hodge F. W. *f*
Hoyt T. *f*
Jones T. *f*
Owens T. *a*
Mansfield L. K. *l*
Pearce R. *a*
Purdy Horace & Son *f**a*
Quien C. & Co. *f**a*
Reed L. *f**a*
Robinson H. M. *f*
Stevens Geo. C. *f*
Treadwell & Ryder *f*
Tweedy John *f*
Wildman Jas. B. *f*
Williams H. *l*

DANIELSONVILLE

Bill Arthur G. *f**a*
Crofut Sidney W. *a**s**gg*
Danielson S. D. *f*
Mathewson A. B. *f*

EAST HADDAM

Comstock W. S. *f*

EAST HARTFORD

Carroll Jos. R. *a**l**ls*
Liebert A. C. *l*
Merriman C. *f**a**l*
Street F. F. *f*

GREENWICH

Archer Geo. D. *a**l**gg*
Cameron Chas. *f*
Dayton John *f*
Ritch Wm. E. *f*
Russell Joseph E. *f*
Wellstood Robt. *f**a**l**gg**ls*

GROTON

Bailey Henry L. *a*
Perkins Asa *f*
Randall Jason L. *l**m*

HARTFORD

Baker W. E. *f*
Beardsley E. W. *f*
Bennett M. *f*
Bond A. H. *l*
Brewster J. H. *f*
Burnham Frank G. *l*
Burt R. S. *f*
Chapman Silas Jr. *f*
Conkling H. W. *f*
Cowles & Rathbun *l**fs*
Dickinson L. A. *f*
Dillingham E. B. *f*
Fisher Geo. B. *f*
Gillett Ralph *f*
Gorton P. G. *l*
Hall James P. *l*
Halloch E. E. *l*
Harbison Alex. *l*
Harrington H. E. *l*
Hough & Carroll *l*
Kimball C. & Co. *f**m**s*
Lamb John W. *f*
Loydon F. R. *a*
O'Neil Cornelius *l*
Osborne & Price *f*

Penrose Wm. *l*
Pike & Benton *l*
Rathbun J. G. *a*
Richards A. T. *l*
Rogers Wm. H. *f*
Schwab Joseph *f*
Shepherd Chas. E. *l*
Smith J. E. *l*
Street F. F. *f*
Thompson Frank A. *l*
Tyler H. A. *l*
Wakefield & Shew *f**a*
Webster & Moore *f**m*

HAZARDVILLE

Franklin Smith *f**a*
French Wm. E. *f**a*

MANCHESTER

Dunn John E. *f**a*
Latham M. C. *a**l*
Rich Geo. F. *f**a*

MANSFIELD CENTRE

Crane E. B. *f*
Summer E. G. *f*

MERIDEN

Austin P. E. *l*
Brooks W. L. *l*
Churchill A. H. *l*
Gardner A. H. & I. I. *l*
Green Jesse C. *l*
Holt & Stevens *f*
Maybaum Wm. *f**a**l**gg**ls*
McWeeny John *f*
O'Neil & Flynn *f*
Oris A. L. *f*
Page Benj. & Co. *f*
Pickhardt H. C. *f*
Rogers Mrs. C. G. *l*
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Stevens A. L. *f**h*
Twiss Bruce C. *l*

MIDDLETOWN

Bacon & Guy *f**gg**t*
Butler Dale D. *f**m**a**gg**c*
Butler S. H. *f*
Chase Daniel W. *f*
Coughlin W. J. *f*
Hubbard E. N. *f**gg*
Lawton M. W. *f*
Thayer H. M. *f**l*

MOODUS

Day Amasa *f*

MYSTIC

Hoxie John H. & Son *f*
Packer T. E. & Co. *f**l*

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Dayton A. H. *f*
Flynn J. C. *f*
Moulthrop L. S. *f*
Platt L. S. *f**a**l**gg**c*
Sweeney Jus. E. *f**l*

NEW BRITAIN

Butler & Hatch *f**a**m**s**gg*
*c**sb**ls**ht*
Curtis H. L. *a*
Fowler H. G. *f*
Faulkner C. H. *f*
Gafney & Mullen *f*
Humphrey J. D. *f*
Morton A. *f*
Nordend Chas. *l*
Walker & Parsons *f**gg**c*
Yost Gustave A. *f*

NEW CANAAN

Hoyt S. B. *l*
Northrup A. S. *f*
St. John S. Y. *f*

NEW HARTFORD

Fitch Orrin *f**a*
Jones Clarence E. *f**a*

NEW HAVEN

Burton Chas. E. *f*
Burton G. R. and G. L. *f*
Callahan Eugene A. *l*
Cannoa Chas. F. *f*
Coan C. R. *f*
Coolidge E. C. *l*
Dillon & O'Brien *f*
Dudley F. W. *f*
Ess B. F. *l*
Faulhaber Geo. J. *f*
Horton D. D. *l**s*
Martin & Coyle *f*
Moody L. W. *l*
McDermott J. Y. *l*
McNeill V. F. & Co. Fire
Insurance, 88 Church st
Morse Gardner & Son *f*
Morse J. & Co. *f*
Nichols John W. *l*
North J. G. & J. C. *f**a*
Peck Geo. *l*
Pond Philip *l*
Post J. H. *l*
Savage H. A. *l*
Sill Edward E. State
Agent National Life of Vt.
880 Chapel st
Sloan John T. *f*
Thompson C. S. *f**gg*
Thompson Geo. E. *f*
Tucker Denison B. *l*
Tuttle D. N. *f*
Warren H. C. & Co. *f**gg*
Weld & Son *f*
Wilson Chas. & Co. *f**a**s**gg*
*c**sb*

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Braddock C. S. *f**a*
Daboll E. V. *f*
Edgar Thomas *f*
Hill James H. *f*
Learned J. C. & Sons *f**l**m*
*s**gg**t*
Lord Reuben Jr. *f*
Parker T. E. *f*
Parmelee F. H. *f*
Peters Melvin M. *f*
Stark W. G. *f*
Starr Chas. F. *f**a*
Weaver H. C. *f**l**gg*

NEW MILFORD

Beecher S. G. & Son *f**a**l**gg*
*ls**ht*
Emmons E. J. *l*
Fuller Thomas *f**ls*
Knowles H. W. *l*
Soule & Stamb *f**ls*
Todd C. A. & A. G. *l*

NEWTOWN

Curtis F. L. *f*
Leonard W. A. *f*
Northrop C. H. *f*
Rodgers M. C. *f*

NORWALK

Ambler Chas. A. *f*
Austin Alfred E. *f*
Camp A. H. *l*

Coolidge C. B. *f l p g*
Cowles & Merrill
Smith H. D. *f*
Lockwood Wm. *f*
Wilson Oliver E. *f l*

NORWICH

Bachelder Geo. E. *l*
Carpenter I. W. *l*
Coit & Chapman *f l*
Fuller J. E. *l*
Higgins M. C. *l*
Hooker E. T. *l a*
Lathrop J. L. & Son
Learnel B. P. *f l s b*
Palmer H. F. *f*
Parker John V. *f*
Prothero Wm. H. *f*
Royce A. I. *f*
Story J. P. *f l a*
Tarrant Nicholas
Williams J. F. & Sons *f p g m a*

OLD MYSTIC

Bentley S. H. *f*

PLAINFIELD

Tillinghast E. T. *f l*

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Cady W. O. *l*
Edwards Chas. H. *f a*
Strong J. G. *f a*

PUTNAM

Chesbro C. H. *f*
Fuller L. H. *f l a*
Gorman E. *f l a*
Johnson E. H. *f*

ROCKVILLE

Andrew W. W. *f*
Bissell L. & Son
Goehring Herman
Laubacher C. H. *f*
McLean Geo. *f*
Randall & Randall
Topliff H. P. *f*

SAUQUATUCK

Kirk T. *l*
Raymond F. M. *f*
Smith Geo. B. *f*

SEYMOUR

Atwater C. J. *f*
Bradley Henry *f*
Camp L. A. *f*
Culver S. Hart *f p g*

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Barnes C. D. *l*
Bradley A. *f*
Buckley Thos. *l*
Hemingway J. *f l l*
Martin J. H. *l*
Pepworth & Woodruff *f l a*
Rachor F. *f*

SOUTH NORWALK

Barker Oliver E. *f l a*
Becker Frank *f*
Dunning Jos. S. *l*
Layton Jacob M. *f a l p g*
L'Hommedieu S. S. *l*
Lyon Fred'k
Mead Melville E. *f l*
Morrell D. P. *f*
Taylor & Golden *f l p g a b*
Wilcox Walter L. *f*

SOUTHBURY

Perry H. H. *f l*

STAFFORD

Chandler J. W. *f l*
Howard A. *f l p g a*
Harwood Chas. F. *f l a*
Tilden A. J. *f l*

STAMFORD

Anderson J. M. *f l*
Begent L. S. *f*
Bell Harry *p g*
Bell E. M. *l a*
Brown William E. *f l*
Clark & De Forest *p g*
Decker Jos. *a*
Dunn M. L. *f*
Hanrahan Daniel
Hoyt Frank H. *f*
Hubbard H. A. *f*
Miller & Haug
Sullivan Dan' J. *l*
Swartwout Saterlee *b*
Taff Fred A. *f*
White W. N. *f*

STONINGTON

Anderson Jerome S. *f a m*
p g l
Pendleton Jas. *f*
Robinson G. H. *f*
Trumbull H. N. *f*

THOMASTON

Stoughton Geo. H. *f*
Thomas Edson *f*

THOMPSONVILLE

Brainerd David *f a*
Gowdy Willis *f l*
Pease Loren H. *f*

TORRINGTON

Allen Henry J. *l*
Brooks Isaac W. *f a l p g*
Daines George W. *f l*

UNIONVILLE

Hitchcock & Taft *f l a*

WALLINGFORD

Camp E. B. *f*
Cook Edward *l*
Davis Henry *f*
Newton W. H. *l a*
O'Connell Patrick *l*
Roach Jas. *f*
Wall P. N. *l*

WATERBURY

Abbott Anson *f*
Bassett Homer F. *l*
Boughton Henry E. *l*
Bronson C. H. *f l a b p g*
Carmody M. F. *f*
Cassidy Wm. J. *f l*
Cook F. F. *f*
Hart C. H. *f*
Hancock T. F. *l*
Hoadley F. B. *f*
Jarrett Wm. P. *l*
Jones John G. *f l*
Judd Geo. E. *f p g*
Lamb Chas. E. *f*
Moran T. F. *f*
Neagle John S. *f*
Parsons G. S. & Co. *f*
Rowland Henry *l*
Rusher H. P. *f*
Ryan John *f*

Schlegel W. J. *f*
Smith & Root *f*
Williams S. P. *f l*
Welton Nelson J. *f l*

WEST HAVEN

Bryant & Main *f*

WESTPORT

Hull John H. *f l a*
Hyant Joseph G. *f l*
Raymond Frank *f*
Smith Geo. B. *f*

WEST WINSTED

Carrington G. M. *f*
Hunt C. K. *f a l p g l*
Moore D. S. *a p g*

WETHERSFIELD

Adams Josiah G. *f*
Griswold F. A. *l*
Pomeroy Wm. S. *l*
Smith Geo. *f*
Woodhouse E. G. *f*

WILLIMANTIC

Adams A. B. *f p g*
Andrews C. N. *f l a*
Bowen A. J. *f*
Chesbro Ernest P. *f*
Lyman Dwight A. *f*
Mowry S. G. *f*
Spring James C. *l*
Topliff H. P. *f*
Walden James *f*
Walden John L. *f*

WINDSOR**WINDSOR LOCKS**

Benson J. B. *f*
Briscoe Chas. *l*
Converse Alfred W. *f*
Hayden Jabez H. *f*
Laly John *l*
McAlpine G. S. *l*
Mullen Jas. *l*

WINSTED

Pierre H. J. *f*

WOODBURY

Martin R. B. *f l a*
Norton O. E. *f l a*

DELAWARE.**DELAWARE CITY**

Money Geo. B. *f l c*
Warren Jos. N. *l a*

DOVER

Barnet Mrs. E. *f l*
Clark Enoch *f*
Denny Wm. *f*
Deaney Wm. D. *l*
Fisher Wm. *f l*
Morris & Dawson
Todd Jas. H. *f*

GEORGETOWN

Robinson & Co. *f*

LAUREL

Fooks D. J. *f*
Wooten J. W. *f*

LEWES

Marshall Chas. M. *f*
Waples Lemuel W. *f*

MIDDLETON

Cox Alfred G. *f*

MILFORD

Cauley T. P. *f l a*
Herring Wm. G. *f*

Scott D. R. V. *f*
Williams C. T. W. *l*
Williams Robt. H. *f*

NEWARK

Donnell S. M. *f*
Williams G. W. *f*

NEWCASTLE

Herbert Frank E. *f*
Platt John V. *f*

SMYRNA

Beck E. H. *l*
Cummins R. L. *f*

Hoffecker W. O. *f l a l a p g b h l*

WILMINGTON

Buck L. P. *f m*
Gilpin & Co. *f a*
Hawkins & Co. *f p g*
Joyce W. H. *l*
Knox S. M. *l a*
Lewis T. Howard *l*
Maher A. *l*
Marshall G. C. *l a*
Mather J. M. & Co. *f p g*
Van Trump E. A. *f l a*
Wray C. A. *l*

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Arm J. T. *f l*
Avery R. W. & Son *l*
Baker & Lampton
Ballinger M. A. *f*
Balloch G. W. *f l*
Barnes & Simpson
Baimes & Weaver
Barstow W. H. *f*
Benjamin Frederick
Bergman H. H. *l*
Bieber Samuel *f*

Bird & West *f*
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Bond Thomas D. *f*
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Equitable Life Assurance
Society, Equitable Bldg.
Bowes & Hall
Bowman & Maury *l*
Burnes E. N. *l*
Brooks T. R. *f*
Brown T. Janney *f l*
Casilear R. A. *f*
Caywood A. S. *f*

Cohen J. G. *f*
Coleman W. H. S. *l*
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Cross Sam
Cutter E. C. & Co. *f*
Danenhower Washington
Dante F. B. & Co. *f c*
Deeble, Davis & Co. *f*
Dowling H. W. *f*

Duckett, Dent & Co. *f*
Duval L. Kemp *f*
Duval W. Clarence *p g*
Duval & Duval *s c a*
Earle H. M. *f*
Easterday & Haldeman
Emack C. G. *f*
Emerson & Cahill
Fague G. M. *f*
Fague Jos. R. *f*
Fardon & Co. A. P. *f a*
Fenwick B. G. *l*
Ficklen, S. P. *f l*
Fickling Chas. H. *f*

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Gaddis J. P. & Co. /
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Gibbs A. H. /
Goodman R. L. /
Graves & Belt /
Gresham Edwin J. /
Green Jas. M. /
Gurley W. B. /
Haddaway T. D. /
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Heiskell & McLeran /
Henderson John M. /
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Hufty Francis /
Huntzinger G. L. /
Jackson Clinton /
Jester J. G. /
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Krohr John G. /
Lacy, Lee & Co. /
Lang E. G. & Co. /
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Lee A. H. & Son /
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Lewis C. F. /
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McIntire E. A. /
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Mutual Life Ass'n.
McLachlen & Batchelder /
Myers C. F. & Co. /
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Raymond F. K. /
Reed W. G. /
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Ringwalt Chas. G. /
Robertson & Blackford /
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Snell U. /
Stabler Albert /
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APALACHICOLA

Ruge John G. /f

BARTOW

Stanley & Holland /f/a
Stevens G. A. K. /f/a

BRADENTOWN

Cornwell A. T. /f/a c s b g

BROOKSVILLE

Butterwerk O. C. /f/a

DAYTONA

Wolsely Robt. B. /f

DE LAND

Heyward E. Hobart /f/a
Wright Silas B. /f/a p g t

EUSTIS

Adams Benj. F. /f/a
Jerome C. M. /f

FERNANDINA

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Endel A. M. /
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s c s b h t
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SPRINGS**

Greer J. F. /f/a
Hanford & Low /f/a

HAWTHORN

Hammond & Moore /f

JACKSONVILLE

Dawkins Crosby /f/a p g
Johnson Geo. E. /
Norton J. H. /
The Foster-Marvin-Haynes
Co. /f/a g
Towns Charles B. /

JASPER

Small & Small /f/a

KEY WEST

Hutchinson & Porter /f/a m a
Pendleton C. B. /f/a m s p g c
s b a

KISSIMEE CITY

Cannon Mrs. A. L. /
Willson J. M. Jr. /f/a s c

LAKE CITY

Bava Joseph F. /f

LAKELAND

Drane H. J. /f/a t

LEESBURG

Lees J. W. /
Porter J. E. /f/a g g

LIVE OAK

Heilverston & Jordan /f
Wolfe & White /f

MADISON

Jordan Wm. S. /f/a s

MARIANNA

Guyton Moses /
Milton W. H. Jr. /f/a s t

MONTICELLO

Clarke T. L. /
Harrison A. B. /f/a s p g c s
Smith & Turnbull /f
Tucker J. H. /f

OCALA

Allen E. C. Jr. /
Davis D. W. /f/a
Fishel M. /
Fox Louis /f
Moody S. W. & Son /f/a

ORLANDO

Barnes W. F. /f/a p g t
Curtis & O'Neal /f/a s
Way T. Y. /f/a
White & Knox /f/a g t f/a

PALATKA

Bailey G. Loper & Co. /f/a
Hilliard I. H. /a

PENSACOLA

Anderson E. D. /
Anderson & Dorr /f/a m a p g
s b t
Brosnahan H. A. /

Chiplew G. /

Jordan R. J. a
Knowles Bros. /f/a p g s b t
Tate Sterritt /f/a s b a
Thompson L. E. /

ST. AUGUSTINE

Cooper M. R. /f/a
Hamblen Frank /f/a

SANDFORD

Chase & Co. /f/a
McRae & Bro. /f/a

STARKE

Peck C. L. /f/a c

TALLAHASSEE

Bernard Overton /
Bowen N. M. /f/a
Greenhow Geo. /f/a
Perkins & Williams /
Shine R. A. /f

TAMPA

Carruth Thomas A. & Son /f
l a s b t
Clewis A. C. /f/a c s b

TARPON SPRINGS

Webster C. D. /f/a p g

TAVARES

Newell C. H. /f/a s p g

ZELLWOOD

Robinson R. G. /f

GEORGIA.

ACWORTH

Mitchell R. M. /f/a

ALBANY

Carter & Woolfolk /
Coles A. P. /
Davis D. D. /
Davis J. S. /
Kasper Sam /
Tucker & Tarver /
Warren R. H. /
Wight Ed L. & Co. /f

AMERICUS

Brown H. M. /
Byrd R. T. /f
Callaway M. /
Council L. G. /f
Davenport W. T. & Son /f t
Dunn W. T. A. /f/a
Gatewood T. F. /
Harrold U. B. /
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Poage F. *ft*
Smith F. M. *ft fg*
Tudor J. A. *ft*

HOOPESTON

Briggs C. M. *f*
Chamberlain Chas. L. *f*
Griffith & Chamberlain
Gilman D. D. *f*
Knox R. M. *f*
Wallace & Catherwood *fla*

HYDE PARK

Bour Geo. C. & Co. *f*
Garrell W. F. *l*
Kellogg E. H. *l*
Peirce & Cowley *f*

JACKSONVILLE

Ayers Walter *f*
Bancroft Joseph H. *f*
Brown W. F. *f*
Brown W. F. & Co. *flta*
Catlin C. A. *l*
Chesney S. P. *f*
Fanning G. W. *f*
French C. L. *f*
Glover E. F. *flta*
Goheen Lycurgus *ft*
Greenleaf, Rutledge & Gates
flta
Henderson A. *f*
Keating Ed *f*
Lewis C. B. *ft*
McAhan J. R. *l*
McCullough W. H. *f*
Milburn Mrs. Carrie
McDougall C. E. *f*
Osborne C. A. *f*
Parsons Jas. A. *f*
Sawyer Helen
Upham B. R. & Co. *flta*
Ward C. H. *fla fg st*
Wharton J. B. *f*

JERSEYVILLE

Bowman S. H. *ft*
Cutting L. M. *flta*
Steele Geo. B. *flta*

JOLIET

Bischoffman, Loughran & Co.
fl
Castle D. W. *l*
Clements & Oliver *f*
Clendenin F. *f*
Egan Jas. *f*
Goodspeed S. A. & Co. *fa*
Howard E. E. *fa*
Morgan A. R. *la*
Paige & Raynor *ft*

Shaw E. B. *ft*
Schuster M. P. *f*
Soule Lester *f*
Tyler S. S. & Co. *f*
Woods John *fl*
Zarley W. H. *fl*

JONESBORO

Cook Alvan *f*
Grear Harry *f*
Soergel J. G. *f*
Watkins T. J. *f*

KANKAKEE

Brink J. C. *f*
Cornwell B. L. *f*
Dolan J. *fla*
Dolan Jas. *f*
Darnham D. L. *fl*
Frazier Wm. *f*
Goodreau Louis *flfgta*
Hanna Isaac B. *fla*
Lecourneau Geo. R. *f*
McAnally F. *ft*
Martin A. F. *fa*
Mead & Dixon
Nichols E. H.
Nugent Chas. B. *l*
Orr J. Howell
Parks F. I. *fl*
Ripley Lorenzo *f*
Sevill Chas. O. *fl*
Schneider Chas. *fg st*
Warriner E. B. *fl*

KANSAS

Dyer S. L. *la*
Hisey D. W. *f*
Hurst E. E. *la*
Moffitt M. B. *ft*
Pinnell W. S. *ft*
Rose E. G. *ft*
Shaver M. L. *ft*

KEWANEE

Anderson A. J. *fl*
Anthony Geo. A. *fla fg*
Bennison Walter *f*
Blake Ira *fl*
Hartun W. E. *fl*
Long H. H. *ft*
Maul A. *fg st*
Moore Robt. *f*
Pierce Wm. T. *f*
Remick C. P. & W. H. *fl*
a fg sb
Sites Wm. *f*
Taylor & Becker *fl*

KIRKWOOD

Davison R. R. *ft*
Tubbs W. C. *fla st*
Tubbs & Russell *l*

KNOXVILLE

Butt H. J. *f*
Gault Isaac B. *f*
McIntosh J. D. *fa*
Tate J. W. *f*

LACON

Bane Geo. M. *fl*
Ford W. H. *f*
Martin I. N. *f*
McMurtre L. C. *f*
Monahan M. J. *f*
Richmond E. D. *f*

LA HARPE

Booth J. R. *f*
Coulson Geo. *f*
Ginnaven D. E. *f*
Ingraham C. H. *f*
McLean Jas. E. *f*
Miller W. E. *f*

LANARK

Glottelty J. M. *ft fg*
Weary M. S. *ft*
Yeager Jos. *ft*

LA SALLE

Bobkevits V. S. *f*
Cassidy J. J. *f*
Cleary C. *f*

Hanley P. *f*
 Hummer W. B. *a pg*
 Kings John A. *f a p g s t*
 Kinsey N. *a f*
 Mason W. S. *f l t a p g*
 Young Bros. *f l a p g*
 Zwick F. B. *f*

LEBANON

Hearling Wm. *f*
 Hightower N. D. *f*
 Sausner A. *f*
 Waggoner E. B. *f*
 Zerwick Louis *f*

LENA

Baldwin Geo. *f l t*
 Bowker W. E. *f*
 Foll W. H. *f l t*
 Hinds Andrew *f*
 Hornig & Selbig *f*
 Krape A. A. *f*
 Waite Chas. *f*
 White H. M. *f*
 Wingart H. *f*

LEWISTOWN

Boyd Wm. *f l*
 Dyckes W. J. *f*
 Fike Wm. *f*
 Whitaker Geo. *f l a*
 Worley W. C. *f*

LEXINGTON

Claggett B. J. *f*
 Davidson A. B. *f*
 Dawson John B. *f*
 Scroggin A. H. *f*
 Strayer L. B. *f*
 Weakly J. M. *f*

LINCOLN

Beeson W. M. *a*
 Biver P. M. *f*
 Cadwallader A. D. *f l a*
 Corwine Geo. D. *a*
 Cox Geo. H. *f*
 Haller John S. *f*
 Jenkins John T. *f*
 Martin Edward *f*
 Meyer Wm. *f l a*
 Nicholson, Blackburn & Star *key f a t g g*
 Pegram N. E. *f*
 Perkins E. C. *f*
 Randolph Chas. *f l a t*
 Schwerdtfeger L. C. *f*
 Thomas W. A. *f*

LITCHFIELD

Boulton R. P. *f*
 Charles Willis *f*
 Crawford H. R. *f*
 Harrington T. W. *f l*
 Hushing Mike *f*
 King & Paisley *f*
 Mundy C. B. *f*
 Spruill O. F. *f*
 Ward Chas. W. *f*
 Wood & Stansifer *f l*

LOCKPORT

Butler A. C. *f*
 Butler Andrew H. *f*
 Chidsey D. *f*
 Clark H. R. *f*
 Freeman J. T. *f*
 Hawley & Chandle *f l*
 Stowe F. F. *f*
 Walter M. *f*

MACOMB

Bonnie John *f*
 Billings Elsworth *f*
 Brewster S. P. *f*
 Chrisinger John W. *a*
 Compton Wm. *f*
 Cummings J. H. *f*
 Harris H. H. *f*
 Holly T. R. *f l*
 McClure Thos. *f*
 McLean Alex. *f*
 Piper O. *f*
 Ruckle W. H. *f*
 Switzer Theo. *f*

Tugman W. N. *f*
 Vose L. B. *f l*
 Walker Elmer *f*
 Winslow M. T. *f l*

MARENGO

Bennit Geo. F. *f*
 Cressley S. A. & Son *f*
 Eshbaugh W. S. *f*
 Fisher W. H. *f*
 Gault Richard *f*
 Howe E. N. *f*
 Jackson & Vail *f*
 Joslyn W. *f*
 Mead F. M. *f l*
 Painter Frank *f*
 Smith S. A. *f*
 Wolaban N. V. *f*

MARION

Baker M. L. *f*
 Benson Arch. T. *f*
 Binkley T. J. *f*
 Dennison & Burnett *f*
 Enbanks E. E. *f*
 Enbanks W. H. *f*
 Higgins Frank *f*
 Keeler J. W. *f*
 Spiller & Fowler *f l a*
 Warder W. H. *f*
 Westbrook J. W. *f*
 Willeford J. B. *f l*

MARSEILLES

Butterfield F. L. *f l*
 Grant O. B. *f*
 Harrington R. T. *f*
 Knott R. F. *f*
 Morey & Neff *f g*
 Neff F. T. *f*
 Stebbins G. C. *f*

MARSHALL

Black R. *f t*
 Clark Thomas W. *f t*
 Cole & Cole *f t c*
 Davidson D. J. *f t*
 Gasaway H. *f*
 Hollenbeck & Booth *f t*
 Jones E. *f*
 Kilborn J. W. *f l a*
 McCann N. *f t*

MASCOUTAH

Hehner Phil D. *a*
 Heinrich George *f t*
 Lill P. W. *f t*
 Scheve Gust. *f t l*

MASON CITY

Forsyth N. S. *f*
 Naylor U. *f*
 Thompson H. C. & Co. *f*

MATTOON

Allison N. B. *f t*
 Beall J. J. *a*
 Cox Frank *f*
 Ewing Daniel *f*
 Kinclaid & Mathews *f l*
 Spittlar, Noble & Co. *f l a*

McHENRY

Mead H. C. *f a*
 Miller J. J. *f*
 Perry & Owen *f*
 Stoffel Simon *f l s t*
 Stoffel Wm. *a*

McLEANSBORO

Endaily Chas. *f*
 Hall & Hogan *f*
 Howard L. *f*
 Jones J. W. *f l s*
 Shoemaker J. M. *f*
 Webb & Lane *f*
 Wright S. M. *f*

MENDOTA

Cranwell T. S. *f a l t*
 Gardner C. P. *f*
 Kieselbach Otto *f*
 Lambertson J. A. *f*
 Madden & Goedner *f a l t g*
 Smith Austin *f*

METROPOLIS CITY

Brown W. R. & Co. *f*
 Brown W. R., Jr. *f g s b*
 Conner J. Q. A. *f*
 Legget Thos. *f*
 McBane W. A. *f a l m c s b t*
 Young & White *f l*

MINONK

Dunn W. R. *f l t a*
 Hesse H. *f t a*
 Pickard Jos. *f*
 Simpson Jas. A. *f t*
 Stoddart B. M. *f t*
 Von Nordheim E. *f l*
 Wickler J. C. *f l*

MOLINE

Cleaveland, Gleason & Co. *f p g*

Gleason Chas. W. *f l p g*
 Gleason E. H. *f a l p g*
 Gould D. W. *f l t a*
 Keller & Walker *f a l p g c*
 Oakleaf J. B. *f*
 Stevens W. E. *f a l p g t*
 Swenson Gustav *f l t*
 Walker Geo. W. *f l m a p g t*

MOMENCE

Buntain Will C. *f l*
 Durham W. M. *f*
 Gray B. F. *f*
 Lane W. D. & Son *f l t a*

MONMOUTH

Hickman Geo. W. *f*
 Huey & Dougherty *f l*
 O'Dowd & Brady *f*
 Quimby & Hallam *f*
 Roberts Peyton *f l*
 Robison Wm. A. *f*
 Turnbull J. M. *f l*

MONTICELLO

Andrews J. E. *f t*
 Crea H. H. *f t*
 Hicks Jas. *f*
 Porter W. *f l t a l s*
 Smith W. P. *f l a p g s c a b l s t*
 Tatman Bros. *f*
 Woolington A. J. *f t*

MORRIS

Bliss S. C. & Co. *f l p g t*
 Nelson O. J. *f l m*
 Pike E. W. *f t*
 Rolley Wm. *f*
 Woodbury & David *f l a m*
p g t

MORRISON

Baird J. N. *f a l p g t*
 Baum E. G. *f l t a*
 Congar E. J. *f l t a*
 Diefendorf G. E. *f t*
 Jackson Pierre *f a l*
 Kennedy A. E. *f t*
 Macklin G. *f t*
 McKay John *f t*
 Stine I. D. *f t*
 Sampson H. R. *f t*

MOUND CITY

Easterday E. P. *a*
 Wehrenberg Chas. *f l t m*

MOUNT CARMEL

Duly M. I. *f t a*
 Harvey B. A. *f*
 Henning Henry J. *f t*
 Hughes Wm. H. *f l m a p g t*
 Titus Dan'l E. *f t*

MOUNT CARROLL

Blake J. G. *f l*
 Carley F. S. *f t*
 Chrisman L. *f t*
 Claywell Miss J. *f t*
 Farmer C. C. *f l t s*
 Smith Aaron *f t*
 Smith Etta J. *f l*

MOUNT PULASKI

Danner G. C. *f a*
 Lincoln C. W. *f*
 Nicholson F. *f*
 Schafer W. A. *f*
 Scroggin T. A. *f*

MOUNT VERNON

Baugh J. W. *f l p g*
 Crowder J. L. *f*
 Grant R. J. *f*
 Green W. H. *f*
 Johnson A. C. *f*
 Moss Norman *f*
 Pavey E. M. *f l p g*
 Pearcey N. *f*
 Pettit O. O. *f*
 Watson Albert *f*
 Webb & Webb *f l*

MOWEAQUA

Combs A. *f t p g*
 Day H. F. *f*
 Ryors Ralph *f t p g*
 Snell Chas. *f t*
 Snyder V. *f t*

MURPHYSBOR' H

Bain John *f t*
 Bradley C. M. *f t*
 Cox D. *f*
 Hill & Martin *f t*
 Keuhle F. & Sons *f t*
 Phillips Thos. *f*
 Ritter Chas. L. *f*
 Roberts A. H. *f t*
 Stephens R. J. *f t*
 Sundmacher Chas. *f l t*
 Thomas D. B. *f*
 Vancloostre Joseph *f*

NAPERVILLE

Dieter V. A. *f*
 Givler W. A. *f*
 Nadehoffer C. A. *f*
 Rasmussen H. H. *f*
 Royce G. E. *f*
 Scott & Royce *f l a p g l s t*

NASHVILLE

Forman Bros. & Jones *f*
 Hosmer Henry *f*
 Hutchings A. W. *f*
 Jones N. *f*
 Kaufman Wm. *f*
 Wash'ton Co. Abstract Co. *f*
 Watts W. W. *f*

NEWTON

Arnold J. F. *f t*
 Davidson H. C. *f a*
 Harrah & Davidson *f t*
 Harrah E. W. *f t*
 Hersh E. W. *f t*
 Hicks & Stewart *f*
 Lathrop W. H. *f*
 Lemay J. C. *f*
 McCauley G. W. *s*
 McCullough G. W. *f l t s*
 McCullough & Cooper *f*
 Prichard M. *f*

NOKOMIS

Draper A. H. *f l t a*
 Weaver A. F. *f t*
 Wild & Whittan *f t*

NORMAL

Baird W. W. *f*
 Brincey H. M. *f*
 Broynhill A. L. *f*
 Cowen R. A. *f*
 Guthrie J. S. *f*
 Himes J. C. *f*
 Miller J. B. *f*
 Park C. R. *f*
 Schureman Wm. H. *f*

OKLAHOMA

Campbell W. H. *f*
 Coley H. C. *f l p g t h t*
 Gilbert L. C. *f t*
 Menough J. F. *f*
 Moore W. T. *f*
 Sutton J. L. *f*
 Winkler J. H. *f*

ILLINOIS—Con.**OLNEY**

Gunn John H. *fall*
Howard J. C. *fall*
Johnston C. D. *fall*
Kingsbury H. *fall*
Morris H. G. *fall*
Lingle R. E. *fall*
Montray J. I. *fall*
Slanker G. D. *fall*
Wharf Jas. E. *fall*
Wharf Jas. W. *fall*

ONARQA

Amerman Isaac *fall*
Barnum Chas. E. *fall*
Durham E. D. *fall*
Risser Peter *fall*

OREGON

Etnayre W. & Co.
Gentz J. T.
Hastings P. E.
Mason S. G.
Nohe C. J.
Ray E. A.
Sanders J. S.

OTTAWA

Arnold Stephen *fall*
Black Robert O. *fall*
Colwell & Maierhoffer *fall*
Cooke J. E. *fall*
Gibson Theodore C. *fall*
Harris J. O. & Son *fall*
Harris W. I. *fall*
Leland Sherman *fall*
Mackinley & Warner *fall*
McManus James *fall*
Ravens George H. *fall*
Stout John *fall*
Tryon C. E. *fall*

PANA

Ham L. S. *fall*
Henderson J. O. *fall*
Millard A. *fall*
Stockbridge F. W. *fall*
Tribbett W. M. *fall*
Weaver I. N. *fall*

PARIS

Bristol R. A. & Son *fall*
Clinton & Grant *fall*
Dyar R. S. *fall*
Hendrix W. S. *fall*
Howard G. F. *fall*
Laufman & Turner *fall*
Magner J. H. & Co. *fall*
Nelson H. V. *fall*
Propst Ed. *fall*
Redmon W. E. *fall*
Roach W. O. *fall*
Shepherd J. W. *fall*
Tanner Al. *fall*

PAW PAW

Carnahan S. W. *fall*
McMahan Wm. *fall*
Parker F. A. *fall*

PEKIN

Barnes W. C. *fall*
Haines James *fall*
Kuhl C. A. *fall*
Lucas J. *fall*
Rhodes Erastus *fall*
Schaefer Fred. *fall*
Schurman C. H. L. *fall*
Tomm Henry *fall*

PEORIA

Ballance Chas. *fall*
Bills Roswell & Co. *fall*
Brown C. M. *fall*
Callender & Co. *fall*
Cotes F. H. *fall*
Culver Mary E. *fall*
Cummings & Hatfield *fall*
Dieffendorf J. W. *fall*

Feger I. N. *fall*
Frey R. *fall*
Gilliam G. T. *fall*
Goodfellow G. C. *fall*
Hansel J. C. & Co. *fall*
Keith W. H. *fall*
Kempshall R. W. *fall*
Kimmel & Co. *fall*
Kinney S. N. *fall*
Muller Theo. J. *fall*
Reinhardt Bros. *fall*
Richmond Lizzie R. *fall*
Short W. F. Jr. *fall*
Slevin F. T. *fall*
Ulrich Chas. E. *fall*
Walsh & Korsorski *fall*
Wernert Chas. T. *fall*

PERU

Bellinghausen Henry *fall*
Briel J. C. & Geo. *fall*
Bulfer August *fall*
Hoberg F. E. *fall*
Hose & Bellinghausen *fall*
Keegan P. T. *fall*
Noon Thomas *fall*
Ream Henry *fall*
Struerver Chas. & Son *fall*
Struerver Rudolph F. *fall*
Wagner Leonard *fall*
Werling F. X. *fall*

PETERSBURG

Alkire F. V. *fall*
Carter R. S. *fall*
Fisher J. H. *fall*
Frackelton D. S. & Co. *fall*
Morphy E. A. *fall*
Oeltgen E. R. *fall*
Ott Jesse M. *fall*
Robbins J. M. *fall*
Scott P. S. *fall*
Weaver W. H. *fall*
Wilson J. B. *fall*
Young Arthur *fall*

PINCKNEYVILLE

Bischof J. J. *fall*
Craig J. W. *fall*
Craig W. S. *fall*
Dwyer Mrs. Clara K. *fall*
Edwards M. C. *fall*
Gruner Phil *fall*
Hawkins Bros. *fall*
Hawkins E. M. *fall*
Kugler M. L. *fall*
Ozburn Allen *fall*
Williams R. G. *fall*

PITTSFIELD

Burt E. A. *fall*
Chamberlain L. A. *fall*
Chapman C. P. *fall*
Clare M. *fall*
Dow Aug. *fall*
Graves A. D. *fall*
Hirshheimer I. *fall*
Hirshheimer L. D. *fall*
Johnston W. H. *fall*
Klemme Louis *fall*
Nieber F. W. *fall*
Rider J. A. *fall*
Scanland R. C. *fall*
Williamson Orvey *fall*

PLANO

Bennett I. E. *fall*
Clark Ed. *fall*
Faxon E. W. *fall*
Henning E. L. *fall*
Lincoln Lem. *fall*
Sears A. H. *fall*
Smith Clara E. *fall*
Smith J. H. *fall*
Turpin J. E. *fall*

POLO

Hazeltine M. J. *fall*
Moore J. H. *fall*
O'Kane A. A. *fall*
Sanborn A. *fall*
Schryver M. E. *fall*
Wales H. *fall*
Worley M. *fall*

PONTIAC

Ball A. C. *fall*
Barickman C. M. *fall*
Dye Miss Estella *fall*
Ferguson N. *fall*
Greenebaum M. H. *fall*
Hersberg S. H. *fall*
Lacey Wm. S. *fall*
Myers D. N. *fall*
Patty C. S. *fall*
Reed Joe S. *fall*
Simmons E. A. *fall*
Sims S. E. *fall*
Spiro J. *fall*

PRINCETON

Clark H. A. *fall*
Ferris Bert *fall*
Gibbs C. H. *fall*
Henderson T. *fall*
Hungerford John *fall*
Johnson F. A. *fall*
Johnson W. A. *fall*
Loverin M. G. *fall*
Mesenkov W. H. *fall*
Miller Jacob *fall*
Streeter L. H. *fall*
Tindale & Son *fall*
Ziegler O. H. *fall*

PROPHETSTOWN

Besse H. C. *fall*
Hull H. C. *fall*
Paddock Geo. E. *fall*

QUINCY

Ahrends G. *fall*
Bastert J. H. & Co. *fall*
Berger Sim *fall*
Binkert & Crutenden *fall*
Bishop James M. & Sons *fall*
Blunt Geo. C. *fall*
Brown Geo. W. *fall*
Denson Wm. *fall*
Dines & Dussair *fall*
Eull Wm. *fall*
Glenn John G. *fall*
Helma H. A. *fall*
Jansen Richard & Co. *fall*
Karp Wm. *fall*
Kemp Henry *fall*
Kendahl A. C. *fall*
King Clinton *fall*
Line Thos. P. *fall*
Mann S. M. *fall*
Miller F. C. & Co. *fall*
Murphy Wm. *fall*
Parrish Mrs. E. *fall*
Parker E. J. *fall*
Poole A. F. & Co. *fall*
Ricker Geo. E. *fall*
Ricker H. F. Jos. Jr. *fall*
Rigg Frank M. *fall*
Seeger Chas. E. *fall*
Travers J. O. *fall*
Vasen Benj. *fall*
Waldhaas Fred. *fall*
Wehmeyer A. H. *fall*
Wells & Farrar *fall*
Wilcox C. A. *fall*

ROCHELLE

Baxter B. B. *fall*
Clark G. W. *fall*
Dresser F. W. *fall*
Gust F. *fall*
Healy Wm. *fall*
Lake O. M. *fall*
McConaughy J. O. *fall*

ROCK FALLS

Hortche Adam *fall*
Winters & Rosebrook *fall*

ROCKFORD

Aageson N. S. *fall*
Baldwin R. B. *fall*
Banks H. O. *fall*
Gorham O. R. & C. N. *fall*
Gray D. P. *fall*
Hogland F. G. *fall*
Penfield S. F. & G. F. *fall*
Robertson G. C. *fall*
Sheldon C. W. *fall*

Starkweather E. S. *fall*
Trottnow W. C. *fall*
Van Arsdale F. L. *fall*
Weld W. R. *fall*
Weyburn S. F. *fall*
Woolcock C. H. *fall*

ROCK ISLAND

Bahnss F. *fall*
Blanding & Kinney *fall*
Buford J. M. *fall*
Cleland J. H. *fall*
Harris G. W. D. *fall*
Hayes & Cleveland *fall*
Hellpenstell Carl *fall*
Hodgson C. E. *fall*
Hueasing A. D. *fall*
Hurst & Donaldson *fall*
Loosley & Knowlton *fall*
Medill T. J. *fall*
McHugh Chas. *fall*
Quist G. L. *fall*
Reidy Bros. *fall*
Schill H. L. *fall*
Stoddard Jas. H. *fall*

ROGER'S PARK

Andrews W. E. *fall*
Cleveland J. D. *fall*
Dean M. B. *fall*
Doland F. H. & Co. *fall*
Evensen J. E. *fall*
Markey Jas. *fall*
Moss J. T. *fall*
Redfield D. W. *fall*
Scholes R. M. *fall*
Touhy P. L. *fall*
Wetzel Chas. *fall*

ROOD HOUSE

Armstrong & Payne *fall*
Bates & Morrow *fall*
Fessler J. H. *fall*
Patterson & Starkey *fall*
Roodhouse Bros. *fall*
Van Doren C. C. *fall*

RUSHVILLE

Bagby John S. *fall*
Cole Harvey W. *fall*
Glass David H. *fall*
Griffith Chas. E. *fall*
Jarman L. A. *fall*
Lawler Arthur *fall*
Lawler Geo. W. *fall*
Little John S. *fall*
Mann P. E. *fall*
Mourning D. L. *fall*
Nell W. B. *fall*
Noble A. L. *fall*
Rice M. G. *fall*
Spangler J. M. *fall*
Weekley Frank *fall*

ST. CHARLES

Elliott J. F. *fall*
Huls S. S. *fall*
Rockwell *fall*
Olson Charles *fall*
Vorhis F. P. *fall*

SALEM

Farson G. W. *fall*
Feltman H. C. *fall*
Haynie D. D. *fall*
Larimer John W. *fall*
Marshall & Mooney *fall*
Smith Geo. W. *fall*
Stoncipher J. S. *fall*
Williams J. P. *fall*
Wilson Tilton *fall*

SANDOVAL

Bellamy Geo. *fall*
Hawley W. *fall*
Reinhardt & Pate *fall*

SANDWICH

Faxon C. G. *fall*
Kern & Cox *fall*
Sedgwick S. P. *fall*
Sedgwick W. W. *fall*
Schneider Charles A. *fall*
Stinson S. B. *fall*

SAVANNA

Ashford G. W. /
Greenleaf F. S. /
Murray B. J. /
Robinson J. A. /
Smith D. C. /
Stedman Frank /
Wroughton C. C. /

SAYBROOK

McMurray M. C. /
Means & Schureman /
Nelson Geo. M. /

SHABBONA

Archer Samuel /
Heig W. F. /
Hubbell C. W. /
Loving Geo. /
Ray W. H. /
Wells A. L. /

SHANNON

Cook R. M. /
Healy R. W. /
Hedy C. M. /
Sherwood G. T. /

SHAWNEETOWN

Boyd John R. /
Cook, Wiseheart & Hanlon /
Millsbaugh J. W. /

SHELBYVILLE

Amlin W. S. /
Baum Wm. /
Craig & Garis /
Horn James /
Johnson J. W. /
Lloyd, Keller & Robertson /

Marshutz W. B. /
Martin H. L. /
Miller J. /
Miller W. H. /
Oliver Wm. /
Oliver Wm. Jr. /
South C. F. /
Storm Isaac S. /

SPARTA

Barker D. P. /
Doherty J. O. /
Frazier Wm. H. /
McIlwain J. A. /
McIlwain Wm. /
Oliver C. Y. /
Perkins J. C. /

SPRINGFIELD

Brinkerhoff D. C. /
Connors Wm. /
Connolly & Co. /
Garland & Garland /
Gehlman S. H. & Co. /
Grant D. & F. L. /
Herman & Co. /
Kennedy Frank /
Kessberger A. & G. P. /
King John W. /
McConnell John /
Roseberry T. C. /
Ritter Jacob /
Ruckel L. H. /
Vance & Dooling /
Walker E. S. /
Wilson E. A. /
Yackie Henry /

SPRING VALLEY

Barton M. /
Blachley L. S. /
Buchan R. D. /
Hawthorne Wm. /
Murphy J. L. /
Vittenhoff Oscar /

STAUNTON

Blair T. /
Fischer H. A. /
Mitchell John F. /
Ripley J. R. /

STERLING

Allabangle Frank /
Champion R. /
Goltman John L. /
Greenough L. St. John /
Hessling J. F. /
McCune James A. /
Oltman L. /
Street H. S. /
Teats J. C. /
Underwood E. C. & Co. /

Walzer Frank /
Wetzel John /
Wickens & Heckman /

STREATOR

Ackermann & Co. /
Atkins Davis /
Baker & Williams /
Barlow J. C. /
Bawden T. C. /
Casey Nicholas /
Chubbuck O. /
Dicus H. H. /
Flick W. C. /
Keating B. T. /
Myers Ed C. /
Pirkey & Bell /
Praefcke A. J. /
Rockenfeller & Rose /
Ryon O. B. /

SULLIVAN

Campbell & Martin /
Cochran W. G. /
Eden Walter /
Freeman Jack /
Grider John T. /
Hayden B. B. /
Huff Rufus /
Lane C. /
Lilly John P. /
Peadro R. D. /
Peadro R. M. /
Roney A. B. /
Spitler & Hudson /

SYCAMORE

Brown Geo. /
Cliff Daniel /
Dean Geo. /
Dutton & Boynton /
Hall H. P. /
Harned E. B. /
Knights Henry /
Pond C. C. /
Rogers C. D. /
Stephens J. B. & Early /
Wright & Stone /

TAYLORVILLE

Anderson F. W. /
Barnes A. G. /
Clark & Johnson /
Kinney A. O. /
Kinney A. T. & Son /
McCaskill Edward /
Shumway J. N. C. /

TURNER

Bayer G. H. /
Fairbanks A. H. /
Gresham & Burnham /
Wilson W. J. /

TUSCOLA

Cantrall J. R. /
Cantrall & Smith /
Johnson Wm. R. /
McKee A. A. /

UPPER ALTON

Collett D. W. /
Gillham W. L. /
Harrison G. S. /
Leverett C. W. /
Lowe W. W. /
Morgan H. A. /

URBANA

Gerauld T. D. /
Hubbard G. W. /
Linsley Bros. /
Park M. S. /
Purnell Sam. /
Russell Chas. M. /
Russell H. M. /
Thomas & Saffie /
Watson Sam. /

VANDALIA

Bolin J. P. /
Capps Benj. /
Collins J. D. /
Dungs C. L. /
Emmel F. /
Gocheour & Dickman /
Henry F. I. /
Lever S. M. /
McCord D. C. /
Miller L. W. /
Smith C. G. /
Wahl E. L. /
Waterman D. A. /

VIRDEN

Ray T. A. /
Shriver J. H. /
Simons H. C. /

VIRGINIA

Black J. B. /
Gridley J. N. /
Kors H. F. /
Robertson J. T. /
Yaple & Petefish /

WARREN

Bayne James /
Clark S. A. /
Francisco A. /
Glasgow W. A. /

WARSAW

Bellersheim Mary G. & Co. /
Garretson M. /
Hunt M. T. /
Hunt T. B. /
Kruskopf F. /
Raich W. P. /

WASHINGTON

Barnard A. L. /
Bayler & Heiple /
Brady M. R. /
Daugherty J. W. /
Dunning C. A. /
Snyder Josiah /

WATERLOO

Burke J. A. /
Coerver Kilian /
Hambuechen F. W. /
Horine Wm. H. Sr. /
Morrison C. /
Murphy H. /
O'Neill Oscar /
Phillips A. /

WATSEKA

Barber Chas. E. /
Donovan J. L. Jr. /
Fry Daniel /
Hagle Lee /

Hany W. H. /
Harrington Geo. C. /
Harroun A. D. /
Miner Fred /
Morgan Decatur /
Pankey /
Staples S. G. /
Swinford S. F. /

WAUKEGAN

Carney Thos. /
Erakine D. M. & Son /
Heath O. H. /
Heydecker C. /
Hinckley H. A. /
Hutchins E. W. /
Hutchinson H. & Co. /
Jones C. J. /
Jones D. L. /
Judge John /
Kennedy S. H. /
McCallaghan E. B. /
Moderwell J. B. /
Page J. J. /
Smith C. E. /
Smith G. /
Stearne /
Waird C. F. /

WENONA

Allen O. G. /
Barrett S. C. /
Burgess Bros. /
Downey Clark /
Hill A. H. /
Hodge L. J. /
Howe Jerome /
Lauf Wm. /
Moulton N. T. & Son /
Stout Joseph /

WHITEHALL

Greer J. F. /
Morrow, Dillman & Shaw /
Pearce E. J. /
Starkey H. W. /

WILMINGTON

Baker L. A. /
Charlton C. K. /
Ohlhues Peter /
Ranson J. P. /
Shields T. /

WINCHESTER

Condit Wm. /
Miner Henry /
Rankin Daniel /
Smith Edward /
Smith Hubbard & Co. /

WINNEBAGO

Lewis D. C. /
Trittle C. F. /

WOODSTOCK

Austin W. B. /
Cowlin & Hibbard /
Field A. F. /
Johnson J. H. /
Lumley V. S. /
Morey A. L. /
Northrop Chas. /
Quinlan & Murphy /
Richards & Jewett /
Thomas E. E. /

WYOMING

Hammond A. G. /
Hammond Harry /
Kerns Frank /
Teeter E. S. /
Thomas Frank /
Winn Marsh /

INDIANA.**ALBION**

Clapp W. F. /
Engle F. P. /
Knox John Q. /
Lask J. J. /

McEwen W. H. /
Overly Wm. /
Trump Wm. /

ALEXANDRIA

Hall W. I. /

Dalrymple S. C. /
Hughes W. I. /
Leonard H. J. /
Miller Bros. & Co. /
Scott J. P. /

Sutton A. /
Wallingford J. D. /
ANDERSON
Cheney, McCormick & Langell /

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Durbia D. H. *f*
 Durbia W. T. *f*
 Eyckle P. R. *f*
 Jackson & Burr *f*
 McLoad Bros. *f*
 Moore Saml. *f*
 Schenck Robert *l*
 Schornacher & Bortner *f*
 Surratt G. W. *l*

ANDREWS

Haller W. L. General
 Agent Vermont L. Ins.
 Co.

ANCOOLA

Dawson Benj. F. *f*
 Freeman Clarence *f*
 Gates L. *f*
 Gilbert N. W. *f*
 Hutson H. L. *f*
 Kinney John *f*
 Lazenby C. D. *f*
 Macartney F. *f*
 Moss S. A. & Sons *f*
 Powers F. M. *f*
 Wambaugh U. L. *f*
 Wood Sol. A. *l*
 Work Byron *f*

ATTICA

Aherns J. W. *f*
 Blout M. *f*
 Martin H. C. *f*
 Martin James *f*
 Reed Wm. B. *f*
 Wilson M. L. *f*

AUBURN

Casebeer E. L. *l*
 Culbertson H. R. *f*
 Hastings B. M. *f*
 Lanning Geo. W. *f*
 McIntyre W. H. *f*
 Merica C. M. *l*
 Saxton T. J. *f*
 Sprott T. H. *f*
 Walborn Jacob *f*
 West Price D. *f*

AURORA

Baker W. S. *f*
 Dennerlein & Wheeler *f*
 Lostutter D. Jr. *f*
 McConnell R. A. *f*
 Merkel A. H. *f*
 Nees John A. *f*
 Schuler Jacob *f*
 Stedman Seth *f*
 Wood Geo. W. *f*
 Wymond John E. *f*

BATESVILLE

Beck Geo. *f*
 Goyert August *f*
 Johnson Chas. *f*
 Lehmkuehler John *f*
 Papet R. N. *f*
 Simpson H. M. *a*
 Stow H. E. *f*
 Timmerman & Hillenbrand *l*
 Wilkes J. W. *f*

BEDFORD

Blackburn M. *f*
 Boniff Wm. *f*
 Chestnut Jas. *f*
 Dillman J. L. *f*
 Grimes Chas. *f*
 Isominger Geo. *l*
 Malotte A. A. *f*
 Newton, Crook & Son *f*
 Parker D. W. *f*
 Robinson E. *f*
 Stalker Eb. *f*
 Walls John *f*

BLOOMFIELD

Heaton J. B. *l*
 Herold Otto *f*
 Letsinger H. W. *f*
 Osborn G. W. *f*

BLOOMINGTON

Cochran A. C. *f*
 Dodds & Burbank *f*
 Filbert & Edmonston *f*
 Louden J. H. *f*
 Mulky & Rice *f*
 Northcott R. S. *f*
 Rogers S. B. *f*
 Woolley & Barnhill *f*
 Worrall C. R. *f*

BLUFFTON

Deam H. H. *f*
 Greek W. W. *f*
 Justice & Cummings *f*
 Jodd N. K. *f*
 Hale J. P. *f*

BOONVILLE

Barker W. L. *l*
 Chapman W. H. *l*
 Hargrave E. C. *f*
 Link Jesse *f*
 Myers T. *f*
 O'More R. D. *f*

BOSWELL

McAdam A. B. *f*

BOURBON

Chaplin J. D. *f*
 Kern A. L. *f*
 Thomas J. D. *f*
 Tyrell H. H. & Daughter *f*

BRAZIL

Pruner, Falls & Moss *f*
 Stark O. T. *f*
 Wilson, Turners & Selders *f*

BREMEN

Hayes S. Jas. *f*
 Miller H. H. *f*

BROOKVILLE

Barton Thos. *f*
 Butler A. W. *f*
 Geis F. *f*
 Hippard A. S. *f*
 O'Byrne G. F. *f*
 Reynolds W. *f*
 Shirk J. C. *f*
 Smith F. M. *f*

BROWNSTOWN

Benton W. L. *f*
 Daly Wm. *f*
 Fassold Frank *f*

BUTLER

Campbell J. A. *f*
 Campbell M. F. *a*
 Diehl Dan D. *f*
 Tomlinson W. W. *f*
 Wanamaker H. *f*

CAMBRIDGE CITY

Bailey Bros. *f*
 Jay M. C. *f*
 Markle W. T. *f*
 Mosbaugh F. C. *f*
 Tuterow W. S. *f*
 West G. L. *l*
 Williams C. T. *l*

CANNELTON

Hennen Mrs. Martha *f*
 Henning Will C. *f*
 Payne S. L. *f*

CHARLESTOWN

Ferrier Wm. S. *l*
 Long J. M. *f*
 Sharp J. D. *f*
 Shorpe Thos. *f*
 Wilson J. C. *f*

CLINTON

Bonner W. H. *f*
 Campbell J. G. *f*
 Johnson D. C. *f*
 Robb J. W. *f*

COLUMBIA CITY

Clugston P. H. *f*
 Foust A. H. *f*
 Heller J. F. *f*
 Hollis Chas. T. *f*
 McKinley Wm. *f*
 McAllen Bros. *f*
 Tulley C. E. *f*
 Wigent & Gates *f*

COLUMBUS

Caldwell Geo. W. *f*
 Cobb J. B. *f*
 Donahat Wm. *f*
 Hickey John M. *f*
 Holland John *a*
 Kinney & Turpin *f*
 Kinney E. H. *l*
 Mahoney & Treadway *f*
 Prather T. B. *f*
 Schleppey John *a*
 Shea W. H. & Co. *f*
 Stader W. W. *f*
 Stobo D. & J. *f*
 Wallace W. B. *f*

CONNERSVILLE

Andrea D. W. *f*
 Broadbudd L. L. *f*
 Curry Robt. *f*
 Fleming G. W. *f*
 Frost H. L. *f*
 Hannah J. W. *f*
 Little J. L. *f*
 Little T. M. *f*
 McElhinny D. E. *f*
 McNaughton W. F. *f*
 Mount Roots & Barrows *f*
 Ochiltree Wm. *f*
 Runyan A. *f*
 Runyan W. C. *f*

COVINGTON

Douglass O. S. *f*
 Evans J. G. *f*
 Little L. P. *f*
 Marlatt A. *f*
 Miles R. W. *l*
 Miles W. H. *f*
 Schwin J. B. *f*
 Stillwell A. *f*
 Tritt H. A. *l*
 Yount H. C. *f*

CRAWFORDSVILLE

Abraham & Krant *f*
 Braden H. S. *f*
 Cumberland & Miller *f*

Clements A. J. *f*
 Hutton H. A. *f*
 Jennison A. C. *f*
 Morgan & Lee *f*
 Mount F. P. *f*
 Rountree D. W. *f*
 Schrum & Co. *f*
 Thomas C. L. *f*
 Voris & Stilwell *f*
 Wallace Wm. K. *f*
 Williams C. N. & Co. *f*
 Wright C. W. *f*

CROWN POINT

Atkins J. *f*
 Clark W. A. *l*
 Cole E. R. *f*
 Fancher R. *f*
 Gerloch A. *f*
 Malner S. *f*
 Sauerman A. A. *f*
 Seberger F. *f*
 Vanwinkle S. P. *f*

DANVILLE

Barnett L. A. *f*
 Downard J. A. *f*
 Gulley O. E. *f*
 Hadley C. C. *f*
 Harvey Geo. C. *f*
 Parker James O. *f*
 Trotter J. W. *f*
 Van Note John R. *a*

DECATUR

Blakeslee John *f*
 Christen & Schivmeyer *f*
 Coffe & Matt *f*
 Fristoe J. N. *a*
 Gerard Fred *f*
 Grubb A. K. *l*
 Hooper Paul G. *f*
 Lutz Clark J. *f*
 McConnell J. H. *f*
 Meibers John *f*
 Niblick W. H. *f*
 Schivmeyer F. M. *f*
 Schurger John *f*
 Smith D. E. *f*
 Studebaker D. *f*

DELPHI

Bradshaw W. *f*
 Cartwright J. A. *f*
 Cory N. *f*
 Dunkin Abner W. *l*
 Fawcett J. W. *f*
 Higginbottom R. L. *f*
 Ramey J. M. *f*
 Whittiker W. *f*

EDINBURGH

Denning D. L. *f*
 Duckworth Mathew *f*
 Helens A. *f*
 Loubery A. *f*
 Thompson W. H. & Co. *a*

ELKHART

Barney Geo. T. *f*
 Barney W. T. *f*
 Best & Seiler *f*
 Chamberlain O. T. *l*
 Conley O. M. *f*
 Dodge H. C. *f*
 Dodge Jas. *f*
 Fish C. *f*
 Hauenstein Wm. *f*
 Henderson Charles S. *f*
 Johnson & Woolpert *f*
 Kenyon P. L. *f*
 Oberholster J. *f*
 Sage Charles S. *f*
 State & Chamberlain *f*
 Stephens Herrick E. *f*
 Stephens B. F. *f*
 Straw S. D. *f*
 Theis W. *f*
 Turner Perry L. *f*
 Van Fleet Varn *f*
 Weaver D. N. *f*
 Willard & Moyer *f*
 Wright H. C. *f*

ELWOOD

Behymer James & Co. *a*
 Briar George W. *l*
 Deal & Wilkie *f*
 Griffin & Broadbent *f*
 Hunter J. A. *f*
 Hupp Geo. W. *f*
 Roop & Co. *f*
 Tyner E. E. *f*

EVANSVILLE

Bennett, Hutchinson & Co. *f*
 Cobbs King *f*
 Cook W. S. & Co. *f*
 Dennettell J. H. *f*
 Decker Chas. & F. G. *f*
 Eaves Chas. D. *f*
 Ewing F. M. *f*
 Gowen Luther *l*
 Greene & Greene *f*
 Hable J. F. *l*
 Hutchinson Alex. *l*
 Kehr O. J. Life Insurance.
 211 Upper 4th st
 Kerth Thos. & Son *f*
 Kestner J. H. *f*
 Kraft L. F. *f*
 McCoy Bros. *f*
 Mariett J. J. *f*
 McDonald John *f*
 Pittman J. O. *l*
 Todd O. M. *f*
 Walker Joe. *f*
 Weil A. M. & Bro. *f*

FORT WAYNE

Buck W. S. *f*
 Buchman A. O. *f*
 Douglas W. V. *f*
 Eme & Sons *f*
 Fairbank C. *f*
 Everett C. E. General
 Agent Union Central Life
 Fisher D. C. *f*
 Fitch *f*
 Glutting, Bauer & Hartnett
f
 Graham Jas. E. *f*
 Harding D. L. *f*
 Hunt H. B. *f*
 Kuhne & Co. *f*
 Leonard Bros. *f*
 Lombard Joe. *f*
 Lombard S. C. *f*
 Miller N. C. *f*
 Niereiter Conrad *f*
 Orr Chas. *f*
 Randall Irwin *f*
 Schrader & Wilson *f*
 Schuler F. X. *f*
 Siedel Ed *f*
 Williams W. D. *f*

FOWLER

Brown Jos. D. *f*
 Dinwiddie Lee *f*
 Gray Geo. H. *f*
 Snyder Chas. M. *f*
 Wadsworth George *f*

FRANKFORT

Black I. *f*
 Dunnington H. *f*
 Fernal James *f*
 Gordon Chas. *f*
 Graffs R. A. *f*
 Huffman R. *f*
 Sims W. S. *f*

FRANKLIN

Harris Samuel *f*
 Ragdale & Williams *f*
 Slack S. W. *f*
 Wilson R. W. *f*
 Wilson S. A. *f*

GARRETT

Bickell H. M. *f*
 Camp C. W. *f*
 Frederick W. J. *f*
 Gengler L. J. *f*
 Reyher J. V. *f*

GOODLAND

Annabell T. C. *f*
 Babcock A. D. *f*
 Burgess H. *f*
 Gilman F. P. *f*
 McCurry A. T. *f*
 Oswald J. W. *f*
 Perry Wm. *f*
 Wellington C. W. *f*

GOSHEN

Deahl Anthony *f*
 Gallentine M. M. *f*
 Howenstein Fred *f*
 Howenstein Hattie *f*
 Hyde & Brooks *f*
 Kantz P. C. *f*
 Mummert E. E. *f*
 Sint G. D. *f*
 Thomas Amelia R. *f*
 Umbenhour J. D. *f*
 Vail Lou W. *f*
 Vanslyke Rev. *f*
 Wanner Ralph *f*
 Wilson H. C. *f*
 Wilson Wehmeier & Co. *f*
a c p g b l s t

GRAND VIEW

Biedenkopf John *f*
 Forsythe W. H. *f*
 Mason C. C. *f*

GREENCASTLE

Allen Edward *f*
 Allen Jos. E. *f*
 Anderson C. E. *f*

Blake G. E. *f*
 Bowers J. W. *f*
 Carpenter R. F. *f*
 Fee James F. *f*
 Gilmore F. *f*
 Grooms T. C. *f*
 Hurley J. M. *f*
 Keifer Charles *f*
 Kelley A. T. *f*
 Moore Thomas T. *f*
 Peck Thaddeus *f*
 Richardson & Denman *f*
 Scott W. S. *f*

GREENFIELD

Alexander M. G. *f*
 Bragg W. O. *f*
 Corcoran John *f*
 Curry I. A. *f*
 Dudding John C. *f*
 Hughes M. A. *f*
 Hughes Wm. A. *f*
 Jackson Quintman *f*
 Orr A. S. *f*
 Stoner E. E. *f*
 Thompson W. H. *f*

GREENSBURGH

Billings J. R. *f*
 Bonner James F. *f*
 Booth John S. *f*
 De Armond James *f*
 Donnell Seth *f*
 Lowe C. C. *f*
 Miller O. K. *f*
 Northern Cicero *f*
 Steveson & Ernest *f*

HAGERSTOWN

Keath E. Dr. *f*
 Rudy D. A. *f*
 Teetler & Hartley *f*

HAMMOND

Fischer E. *f*
 Friedley Bros. *f*
 Holman & Cox *f*
 Irish J. H. *f*
 Myen Peter W. *f*
 Rust & Son *f*

HARTFORD CITY

Abbott C. W. *f*
 Bonham & Cole *f*
 Clifton J. H. *f*
 Denany Hendry *f*
 Dowell F. P. *f*
 Enshwiler S. J. & A. B. *f*
 Jay S. N. *f*
 Learned, Judson & Son *f*
 McGrath & Bonham *f*
 Rhoades, Kenney & Spence *f*
 Stahl Bert *f*

HUNTINGBURG

Miller S. C. *f*
 Rentepohler Dan *f*
 Schwartz C. W. *f*
 Tirinan J. F. *f*

HUNTINGTON

Alexander J. T. *f*
 Barah John *f*
 Beck P. N. *f*
 Blackburn W. M. *f*
 Cast S. T. *f*
 Hatfield J. M. *f*
 Ibach & Bickle *f*
 Kaufman R. A. *f*
 Kocher Wm. C. *f*
 Lee E. T. *f*
 Little M. W. *f*
 Mitchell W. E. *f*
 Moore M. W. *f*
 Price J. G. *f*
 Reed Isaac *f*
 Schrey J. Frank *f*
 Scott Cole *f*
 Strodel John *f*
 Thorp Wm. I. *f*
 Yopet G. W. *f*

INDIANAPOLIS

Appel D. F. Life Insurance
 Baggs Fred *f*
 Barcus J. Q. *f*
 Bond Pleasant *f*
 Coe Henry *f*
 Coffin Chas. E. & Co. *f*
 Craft W. H. *f*
 Davenport F. B. *f*
 Davidson Dorman N. *f*
 De Witt Carroll *f*
 Dyer & Rassmann *f*
 Edwards D. W. *f*
 Fleener Daniel F. *f*
 Frankel Jacob *f*
 Foster Edw. *f*
 Folsom E. S. *f*
 Gilbert Edw. *f*
 Goodwin E. M. *f*
 Gorsuch Chas W. *f*
 Greene C. P. *f*
 Gregory & Appel *f*
 Hadley & Fay *f*
 Hammond & Grubbs *f*
 Harden T. N. *f*
 Hobbs W. H. *f*
 Holland C. A. *f*
 Keley Benj. *f*
 King J. W. & Co. *f*
 Klum Robert F. *f*
 Lambert John *f*
 Lanktree J. W. *f*
 Leopold S. L. *f*
 McDowell C. H. *f*
 McGilliard & Dark Gen.
 Ins. Agts., 88-86 E. Market
 at

Merz Fred *f*
 Merritt Thos. *f*
 Metzger Alex. *f*
 Moody Lorenzo D. *f*
 Morse A. M. *f*
 Munson E. A. *f*
 Oakes C. W. *f*
 Ohr J. H. *f*
 Overman Harry *f*
 Overman & Nicoli *f*
 Pangborn Geo. W. & Co. *f*

Peck B. B. *f*
 Pocock & Clark *f*
 Prather & McMorroff *f*
 Price J. J. *f*
 Reitm & Van Deine *f*
 Reynolds C. E. & Co. *f*
 Richardson & McCrea *f*
 Ritchie Frank *f*
 Rowe Wm. *f*
 Sayles C. F. *f*
 Schloss Jos. *f*
 Seyfried Henry *f*
 Shideler D. B. *f*
 Spann John S. & Co. *f*
 Swain D. F. *f*
 Todd Isaac Newton *f*
 Tutewiler & Shideler *f*
 Tuttle & Seguin *f*
 Van Arsdell W. C. *f*
 Voss J. G. *f*
 Warburton C. S. *f*
 Welch & McCloskey *f*
 Williams & Flickinger *f*
 Wocher John *f*
 Zener R. & Co. *f*

JASPER

Wilson Bros. *f*

JEFFERSONVILLE

Fogg W. H. *f*
 Fraser Eugene *f*
 Hopkins John T. *f*
 Pfau A. C. *f*
 Preefer Herman *f*
 Rader Thos. B. *f*
 Taylor R. B. *f*

KENDALLVILLE

Aichele Charles G. *f*
 Bower H. C. *f*
 Conlonge J. S. *f*
 Graves Thos. L. *f*
 Hall W. B. *f*
 Hall & Jones *f*
 McCennell L. *f*
 McMillan C. H. *f*

KENTLAND

Cummings & Durnsch *f*
 Hall Andrew *f*
 Jones Extra B. *f*
 Primmer W. W. *f*
 Saunderson & Compere *f*
 Skinner Jira *f*

KNOX

Forbes John *f*
 Gray T. W. *f*
 Gray W. B. *f*
 Harrison R. L. *f*
 Morgan & Wagner *f*
 Newby & Vestal *f*
 Watts & Garrison *f*
 Wilkenson T. B. *f*

KOKOMO

Chestnut M. A. *f*
 Collins J. T. *f*
 Duke Bros. & Co. *f*
 Grant N. N. *f*
 Jay & George *f*
 Johnson J. D. *f*
 Russell W. A. *f*
 Sawyer Laura *f*
 Treas Chas. *f*
 Wherrett W. H. *f*
 Woody N. G. *f*

LADOGA

Brewer G. E. *f*
 Ridge Joel *f*
 Talbott J. E. *f*

LA FAYETTE

Alexander J. B. *f*
 Bone C. W. *f*
 Brockenbrough K. R. *f*
 Brockenbrough & Son *f*
 Brown L. R. *f*
 Bryan & Son *f*
 Dresser & Mitchell *f*
 Kessner Bros. *f*
 Levering Mortimer *f*
 Rosebery W. J. *f*
 Simpson W. M. *f*
 Throckmorton & Rice *f*
 Underwood Chas. R. *f*
 Weibers J. H. *f*
 Willoughby W. *f*
 Wilstach & Wilstach *f*

LA GRANGE

Duck I. P. *f*
 Hanan J. W. *f*
 Herbert H. M. *f*
 Kennedy J. M. *f*
 Rice Emma *f*
 Stroup C. S. *f*

LA PORTE

Andrew F. G. *f*
 Beecher Conrad *f*
 Broeffle J. W. *f*
 Darrow & Nye *f*
 Dorland J. V. *f*
 Hall Earl A. *f*
 Schilling Wm. E. *f*
 Seymour's Geo. F. Sons *f*
 Stahl A. J. *f*
 Wile Jacob & Son *f*
 Williams S. E. *f*

LAWRENCEBURG

Fox & Sortwell *f*
 Hassmer A. J. *f*
 Huber V. W. *f*
 Iherwood & Son *f*
 Lee & Ransdel *f*
 McElfresh Samuel M. & Co. *f*
 Mathews L. S. & Co. *f*
 Mathews P. L. *f*
 Roberts & Son *f*
 Walker Jas. M. *f*

INDIANA—Con.**LEBANON**

Bryan Charles T. *fl*
Jones John W. *fl*
Kenworthy & Osberne *fl*
Neal & Co. *fl*
Roberts & Wrennick *fl*
Schooler & Moler *fl*

LIBERTY

Bates A. K. *fl*
Dawson W. *fl*
Hull & Davis *fl*
Kennedy James P. *fl*
Lamber J. S. *fl*
Macy J. B. *fl*
Slonneger C. K. *fl*
Wilson J. H. *fl*

LIQONIER

Braden J. E. *fl*
Franks Ernest G. *fl*
Gates Henry *fl*
Graham Mary E. *fl*
Green Daniel W. *fl*
Hays John *fl*
Hoffman Arthur *fl*
Hoffman P. V. *fl*
McDonald J. E. *fl*
Reeve Fred *fl*
Sistrhen L. E. *fl*
Sistrhen Peter *fl*
Strauss & Co. *fl*
Treash U. R. *fl*

LOANSPOUT

Bourger G. W. *fl*
Briggs F. J. *fl*
Closson E. D. *fl*
Closson S. M. *fl*
Cockburn George *fl*
Cockburn J. F. *fl*
Fisk C. W. *fl*
Graftin & Miles *fl*
Heppe Miss Ida *fl*
Kessler Homer *fl*
Lairy John S. *fl*
McDonald Wm. *fl*
McGuire Samuel *fl*
Miller Ira *fl*
Richardson S. B. *fl*
Ross W. W. *fl*
Whipperman Frank *fl*

MADISON

Daniels A. *fl*
Eitel John T. Jr. *fl*
Foster H. B. *fl*
Hubbard R. W. *fl*
Millican W. N. *fl*
Senior J. W. *fl*
Smith Samuel J. *acpgt*
Strader S. M. *fl*
Tibbetts E. K. *fl*
Weyer J. K. *fl*

MARION

Baker O. A. *fl*
Baldwin S. G. *fl*
Crum J. W. *fl*
Davis H. M. *fl*
Elliott H. M. & G. M. *fl*
a *pgcb*
Mather C. F. *fl*
Murphy J. E. *fl*
Neal Chas. E. *fl*
Parker J. W. *fl*
Sanders Z. R. *fl*
Smithson I. *fl*
Thatcher W. H. *fl*
Wiley W. H. *fl*
Young W. F. *fl*

MARTINSVILLE

Bain J. G. *fl*
Banta T. S. *fl*
Dryden Wm. H. *fl*
Guthridge S. *fl*
McNair & Whitaker *fl*
Scott Jeff K. *fl*
Sedgewick J. E. *fl*

MICHIGAN CITY

Breece W. H. *fl*
Krueger & Ohming *fl*
Orr Jared H. *fl*
Schwager H. A. *fl*
Spiro I. I. *fl*

MILFORD

Groves M. B. *fl*
Hall I. H. *fl*
McLaughlin J. C. *fl*
Neff O. F. *fl*

MISHAWAKA

Clark Wm. M. *fl*
Cole E. F. *fl*
Gaylor A. *fl*
Hutchinson John W. *fl*
Judkins Wm. H. *fl*
Marsh W. A. *fl*
Niles H. C. *fl*
Schindler J. J. *fl*

MITCHELL

Burton G. W. *fl*
Burton Lizzie *fl*
Kimberlin H. L. *fl*
Martin S. F. *fl*
Moore Ed. *fl*
Moore W. T. *fl*
Sutherland E. F. *fl*
Wood Thomas J. *fl*

MONTICELLO

Bushnell W. P. *fl*
Carson Samuel A. *fl*
Marvin Geo. F. *fl*
McBeth & Robinson *fl*
Still M. M. *fl*
Worthington John Jr. *a*

MOUNT VERNON

Conlin J. S. *fl*
Evertson J. R. *fl*
Green E. T. *fl*
Harlem Jacob *fl*
Peckinpaugh & Larkin *fl*
m *pgls*
Tente C. F. *fl*
Wade E. & Co. *fl*

MUNCIE

Barr Perry *fl*
Baldwin E. L. *fl*
Berger R. *fl*
Bishop E. W. *fl*
Brown J. A. *fl*
Chamberlain J. C. *fl*
Cobb G. M. *fl*
Eiler J. C. *fl*
Fitzgerald John *fl*
Gilpatrick G. A. *fl*
Harper & Co. *fl*
Higman G. N. *fl*
Little W. L. *fl*
Messersmith H. *fl*
Murray Isaac *fl*
Rose T. F. *fl*
Sample C. W. *fl*
Shirk Benj. *fl*
Shipley & Wright *fl*
Smith A. J. *fl*
Stiffler & Koontz *fl*
Templer C. B. *fl*
Walterhouse J. T. *fl*

NAPPANEE

Best Wm. *fl*
Early P. A. *fl*
Kantz J. O. *fl*
McEntoffer J. S. *fl*

NEW ALBANY

Bentley A. W. *fl*
Burke R. E. *fl*
Condit M. D. *fl*
Dodd H. C. *fl*
Harrison J. G. *fl*
Heimberger C. *fl*
Horn John *fl*
Klinnue & Bruns *fl*
Kraft Robt. F. *fl*
McBarron Andrew *fl*

McKay W. H. *fl*
Morris N. D. *fl*
Muir E. *fl*
Nealy Hugh *fl*
Needham H. J. & Son *fl*
Ridley & Klose *fl*
Schwartzel Chas. *fl*
Scribner H. A. *fl*

NEUBURGH

Hazen Robert *fl*
Hochhalter Henry *fl*

NEW CARLISLE

Deacon Wm. H. *fl*
Lancaster S. C. *fl*
Shurtz J. W. *fl*

NEWCASTLE

Adams W. *fl*
Bagot Thos. *fl*
Beach Frank E. *fl*
Boyd Bros. *fl*
Bunch Geo. W. *fl*
Burr L. & H. *fl*
Colton Jas. A. *fl*
Gary D. H. *fl*
Hunt C. C. *fl*
Jeffrey W. E. *fl*
Johnson C. H. *fl*
Livery Frank F. *fl*
Michaels Chas. *fl*
Millette J. T. *fl*
Millikan Thos. W. *fl*
Morris J. M. *fl*
Phillips E. B. *fl*
Redding T. B. *fl*
Rodgers J. W. *fl*
Tracy A. A. *fl*
Wasson Calvin *fl*

NEW HARMONY

Fretagot A. H. *fl*
Johnson E. V. *fl*
Jones A. D. *fl*
Pelham L. *fl*
Wiley William *fl*

N. MANCHESTER

Arthur C. S. *fl*
Bliskenstein E. A. *fl*
Clemens B. F. *fl*
Clowery J. A. *fl*
Domer John W. *fl*
Krisher D. W. *fl*
Loutzenhisen L. G. *fl*
Mills John W. *fl*
Ridgeley W. H. *fl*
Watkins John *fl*

NEWPORT

Aikman B. S. *fl*
Rheuby Wm. *fl*
Stephens R. E. *fl*

NOBLESVILLE

Christian J. R. & Co. *fl*
Lucas R. G. *fl*
McCole C. J. *fl*
McKendie U. B. *fl*
Vestal & Smith *fl*
Wainright W. A. & Co. *fl*

NORTH VERNON

Barnes S. A. *fl*
Fall W. R. *fl*
Hudson J. D. *fl*
Little F. E. *fl*
Reeder W. S. *fl*
Shaffer G. W. *fl*
Verburg W. F. *fl*
Williams Ed. *fl*

OAKLAND CITY

French L. H. *fl*
Martin D. M. & Co. *fl*
Woodruff A. C. *fl*

PENDLETON

Campbell G. W. *fl*
Goodrich & Burdette *fl*
Retherford A. *fl*
Rogers & Son *fl*

PERU

Adkinson L. D. *fl*
Armitage J. T. *fl*
Brown & King *fl*
Clymer J. *fl*
Deibert J. A. *fl*
Dunbar & Holme *fl*
Haines W. W. *fl*
Henton J. T. *fl*
Kenny G. W. *fl*
Myers B. L. *fl*
Myers & Berns *fl*
Oates J. D. *fl*
Parsons C. A. *fl*
Reed J. W. *fl*
Smith G. W. *fl*

PETERSBURG

Ashby & Chappell *fl*
Glezen M. M. *fl*
Hammond R. C. *fl*
Shandy O. F. *fl*
White John M. & Co. *fl*

PIERCETOWN

Barbour Virgil *fl*
Connell D. H. *fl*
Cummins J. A. *fl*
Hawnot W. C. *fl*
Logan J. F. *fl*

PLYMOUTH

Bailey W. E. *fl*
Bender John S. *fl*
Buck & Toan *fl*
Corbin & Packard *fl*
Drummond C. P. *fl*
Houghton John W. *fl*
Lanen L. M. *fl*
Maxey J. W. *fl*
Moller A. J. *fl*
Oglesbee R. B. *fl*
Packard O. M. *fl*
Parks John W. *fl*
Reeve J. S. *fl*
Seider W. E. *fl*
Snayder D. E. *fl*
Tibbetts Chas. B. *fl*
Wise Adam *fl*

PORTLAND

Bosworth H. T. *fl*
Corwin C. *fl*
Evelsior A. W. *fl*
Graves Jas. E. *fl*
Hall John W. *fl*
Hart & Holmes *fl*
Headington N. & Co. *fl*

James E. E. *fl*
Jaqua J. A. *fl*
Kinsey D. S. *fl*
McLaughlin & Whipple *fl*
Perdien T. J. *fl*
Sipe H. T. *fl*
Thomas M. V. *fl*
Thomas F. *fl*
White Frank *fl*
Wiest J. *fl*

PRINCETON

Baldwin E. J. *fl*
Criswell & McMaster *fl*
De Bruler M. *fl*
McDonald W. B. *fl*
Van Nada Martin & Co. *fl*
Weihman E. E. *a*

RENSSELAER

Austin W. B. *fl*
Chapman J. H. *fl*
Ferguson B. F. *fl*
Hollingsworth Geo. K. *fl*
Harris J. C. *fl*
Lotts Frank *fl*
Partee H. W. *fl*
Peacock E. *fl*
Phillips R. P. *fl*
Reeve W. *fl*
Spitler C. G. *fl*
Spitler Marion L. *fl*
Spitler J. E. *fl*
Stewart C. B. *fl*

RICHMOND

Barber J. O. l
 Bradbury & Son f
 Brooks J. H. f
 Doan Isaac C. f
 Dornier & White f
 Fulgham O. B. f
 Hutton N. H. & Co. f
 Jones Elizabeth f
 McCabe & Lehman f
 Morris James M. f
 Myrick B. B. f
 Ostrandeg & Co. f
 Ostrander J. S. f
 Vaughn F. C. f

RISING SUN

Davis R. L. f
 Perkins J. N. f
 Stewart S. H. f
 Wilber D. S. f

ROCHESTER

Baker M. A. f
 Bitters C. K. f
 Bossenbury Fred k f
 Dillon J. M. & Son f
 Dillion A. J. f
 Grelle P. H. f
 Jackson Chas. f
 Smith J. H. f
 Smith J. W. f
 Smith M. R. f
 Troutman John f
 Zeller Wm. f

ROCKPORT

Hudson & Mason f
 Mansfield & Patridge f
 Nourse J. W. f

ROCKVILLE

Harvey W. H. f
 Lambert C. E. f
 Murphy Clinton f
 Sage J. W. f

RUSHVILLE

Armstrong Jos. a
 Beal John f
 Capp F. A. f
 English J. A. f
 Innis Samuel f
 Irvin Arthur B. f
 Lucas H. B. f
 Meredith Will f
 Miller B. F. f
 Osborne John H. f
 Sexton Lewis f
 Scudder R. F. f
 Smith Benj. L. f
 Spirey A. V. f
 Stevens & Parrish f
 Thomas John Q. f

SALEM

Berkey J. B. f
 Gabbert W. P. f
 Hardin J. J. f
 Lanning A. f
 Prow F. L. f
 Ward W. H. f

SCOTTSBURGH

Cain G. V. f
 Davis J. B. f

SEYMOUR

Burtley H. P. f
 Carter P. L. f
 Day R. A. f
 Langel Philip f
 Miller H. P. f
 Miller Henry M. f
 Saltmarsh & Day f
 Thurston & Leininger f
 Tormohlen F. H. f

SHELBYVILLE

Clark & Goodwin f
 Fleming T. W. f
 Hoop John f
 Isley W. H. f
 Kirk G. W. f
 Levinson Jos. f
 Montgomery Horace f
 Montgomery M. f
 Morrison Jas. f
 Otte Fred A. f
 Showers J. L. f
 Whitcomb & Clark f
 Williams A. S. f
 Young John A. l

SOUTH BEND

Brown John M. f
 Burns A. M. l
 Campbell Myron f
 Clark Geo. E. f
 Creed J. P. f
 Evans E. W. f
 Fisher Fannie f
 Fisher John E. f
 French C. H. f
 Funk Walter A. f
 Gibson A. M. f
 Henderson J. D. f
 Howard T. M. f
 Hibbard & Arnold f
 Hibbert J. A. f
 Jackson F. M. f
 Kizer & Woolvorton f

Krueper Paul f
 Lederer John f
 Lewis Jasper E. f
 Listenberger M. E. f
 Meyer J. F. Lewis f
 Mueller F. W. f
 Myler Robt. & Co. f
 Neff J. E. f
 Raff F. C. f
 Rush John f
 Seybold B. M. f
 Stach S. D. f
 Tomorzski Leo F. f
 Tong Lucius G. f
 Trail & Whitcomb f
 Ward Wilbert f
 Wilhelm & Shennelfield f
 Wheeler H. C. f
 Witherill O. S. f

SPENCER

Boswell T. H. f
 Duncan J. L. f
 Lucas F. H. f
 Lucas I. S. f
 Morgan L. D. f
 Spangler T. G. f
 Williams J. W. f
 Williams N. W. f
 Wolf Michael f

SULLIVAN

Stewart C. M. gen. ins. agt
 Chaney S. f
 Kalley Isaac H. f
 Wolf Sol T. f

TELL CITY

Bollinger J. f
 Grimmeisen John f
 Huthastner G. f
 Kaelin Fred f
 Patrick J. T. f

TERRE HAUTE

Allen & Kelley f
 Biel Wm. f
 Bigelow Jas. D. f

BURGET & HEDDEN

Dahlen R. f
 Donaghoe Wm. E. f
 Early J. D. f
 Foulkes John f
 Gerdink J. G. f
 Havens Benj. F. f
 Miller J. S. & W. D. f
 Orman A. D. f
 Powers D. E. f
 Reichert Chas. O. f
 Riddle, Hamilton & Co. f
 Royse I. H. C. f
 Schmidt Frank f
 Smith & Hager f

THORNTOWN

Coulson Geo. f
 Johnson C. W. f
 Lyster Geo. f
 Myer Joseph f
 Potts R. S. f
 Weakly N. W. a

TIPTON

Bates & Lewis f
 Galbraith & Rowels f
 Gilbert D. E. f
 Hancock & Co. f
 Huron W. B. f
 Knause W. H. f
 Martindale & Patterson f
 Moore J. A. f
 Reed J. C. f
 Rumsey J. E. f
 Seright, Clark & Minor f

UNION CITY

Bell S. R. f
 Downing J. J. f
 Gordon O. C. f
 Green O. E. f
 Hughes H. R. f
 Lefever H. H. f
 Le Fever I. F. f
 Schuyler A. B. f
 Taylor P. A. l

VALPARAISO

Arvin Fred l
 Bartholomew S. f
 Bell R. Jr. f
 Drapier Jas. R. l
 Fitzwilliam John f
 Hawkins Jas. B. f
 Marquardt P. f
 McClelland M. L. f
 Jones f
 Peirce L. f
 Peirce Andrew f
 Parks Frank f
 Reading W. L. f
 Salyer D. A. f
 Stoner J. D. f
 Turner Frank f

VERSAILLES

Jones F. S. f
 Spencer John A. f

VEVAY

Dufour A. P. f
 Golay & Smith f
 Pleasants G. S. f

VINCENNES

Bailey B. l
 Bayard J. L. & Co. f
 Convey Jerome f
 Foulkes J. f
 Ghee M. P. f
 Hall Fred f
 Hover C. A. f
 McCoy Geo. W. f
 Mason Wm. C. f
 Teawalt Wm. f

WABASH

Amos Jas. f
 Atkinson A. M. l
 Barton M. J. f
 Lassell H. B. & Son f
 Newhouse & Hammond f
 Parmenter J. T. f
 Ross J. P. f

WARSAW

Alma, V. L. f
 Bair A. J. f
 Baker E. M. f
 Chandler O. J. f
 Christian R. R. f
 Coleman L. F. f
 Cook J. W. f
 Maish W. F. f
 McKinley L. B. f
 Meyers Ed. B. f
 Muman M. W. f
 Runyan J. N. f
 Stewart T. C. f
 Stoakey L. R. f
 Weiss J. R. f
 Widaman John D. f

WASHINGTON

Arthur John F. f
 Barber & Bonham l
 Barber & Crosson l
 Beck Wm. f
 Biddinger A. G. f
 Bradford J. D. f
 Dugan O. N. f
 McCracken J. H. f
 O'Neill M. G. f
 Walters Geo. S. & Co. f
 Williams J. E. f
 Williams W. Q. f

WATERLOO

Abbey G. T. f
 Leas Wm. H. & H. K. f
 Shuman J. F. f
 Willis Fred I. f

WESTFIELD

Howe A. P. f

WINAMAC

Burton J. L. f
 Fish J. W. f
 Freeman N. R. f
 Parrot C. f
 Thompson J. S. f
 Vurpikatt F. f

WINCHESTER

Canada S. A. f
 Connor Miss M. Viola f
 Cotton J. W. f
 Diggs C. W. f
 Diggs W. S. f
 Engle & Engle f
 Fielder S. R. f
 Marsh & Jaqua f
 Poyner Isaac L. f
 Puckett Reverdy f
 Rubey & Boltz f

WORTHINGTON

Carnohan S. H. f
 McKee R. S. f
 Shaw H. C. f
 Shryer G. f

ZIONSVILLE

Beamer C. N. f
 Davenport M. S. f
 Eggers J. H. N. f
 Laughrun N. f
 Malin James f
 McDaniel H. a
 Smith Caleb f

INDIAN TERRITORY.**MUSKOGEE**

Darby & Rounsevell f
 Turner & Bozeman f

PURCELL

Gates Geo. F. f
 McClain C. M. f

WYNNEWOOD

Beeler & Kone f
 Kean & Co. C. G. f

Kone O. B. l
 Lee W. C. f
 Taylor J. A. f
 Williams D. f

IOWA.

ACKLEY

Berg O. *f*
 Blake R. S. *f*
 Block S.
 Eggert S. Y. *f*
 Keenan M. C. *f*
 Rath Sherman *f*

ADEL

Alpaugh J. E. *f*
 Hotchkiss A. C. *f*
 Ish M. I. *f*
 Joy J. R. *f*
 Lambert B. F. *f*
 Russell J. W. *f*
 Snyder J. E. *f*

AFTON

Armitage H. P. *f*
 Blanck & Hubbell *f*
 Davis O. E. *f*
 Lee E. A. *f*
 Syp D. N. *f*

ALBIA

Duncan J. L. *f*
 Mace B. F. & Sons *f*
 Nelson C. L. *f*
 Noble E. Mart *f*
 Pierson M. L. *f*
 Ramsey Ed I. *f*
 Steel H. K. *f*
 Townsend Fred *f*
 Young J. T. *f*

ALQUONA

Burbank E. F. *f*
 Clark A. D. *f*
 Dawson W. C. *f*
 Dingley & Moffatt *f*
 Dorsex C. M. *f*
 Hoxie H. *f*
 Jones & Smith *f*
 Lund & Ryan *f*
 Sessions H. A. *f*
 Sessions S. S. *f*
 Smith L. H. *f*
 Sullivan J. W. *f*
 Taylor F. M. *f*
 Watson C. B. *f*
 Winkler J. B. *f*

ALLERTON

Jacques J. H. *f*
 Reck & Son *f*
 Sherry D. D. *f*
 Tate A. M. *f*

AMES

Cramblit E. B. *f*
 Fowler & Giddings *f*
 Hemstreet M. *f*
 Sheldon & Sheldon *f*
 Taylor Charles *f*
 Thayer A. H. *f*
 Whitciter C. *f*

ANAMOSA

Brown C. M. *f*
 Lull C. H. *f*
 Rhodes F. M. *f*
 Shapley T. W. *f*
 Tucker L. E. *f*
 Warren P. *f*

ANGUS

Morris W. A. *f*

ANITA

Bartlett C. D. *f*
 Boyle P. *f*
 Bruce Jas. E. *f*
 Chrisman M. W. *f*
 Faulkner W. H. *f*
 Forsyth B. D. *f*
 Myers Wm. R. *f*

ATLANTIC

Appelman Bros. *f*
 Bagley Mr. *f*
 Bryant S. B. J. *f*
 Crain D. S. *f*

Dickerson H. I. *f*
 Fletcher C. S. *f*
 Gillespie J. E. *f*
 Graham C. R. *f*
 Lyon Geo. M. *f*
 Nipper A. M. *f*
 Pennell G. E. *f*
 Pine A. D. *f*
 Straight S. W. W. *f*
 Temple F. O. *f*
 Ulbrich Wm. *f*
 Wallace T. R. *f*
 Wilken J. O. *f*
 Wilken W. A. *f*
 Willard E. *f*

AUDUBON

Bagley Charles *f*
 Brannard F. E. *f*
 Fox Henry *f*
 Funk H. U. *f*
 Hanna H. W. *f*
 Horton V. E. *f*
 Myers Theo. *f*
 Nash J. A. *f*
 Nash, Phelps & Green *f*

AVOCA

Barton R. *f*
 Benjamin F. *f*
 Bowen C. O. *f*
 Consigny L. *f*
 Diederich G. *f*
 Gilchrist Miss M. E. *f*
 Hetzel J. C. *f*
 Hipsley J. J. *f*
 Rohls T. *f*
 Smith Frank *f*
 Swartfeger C. I. *f*
 Turner Frank A. *f*

BEDFORD

Authand & Johnson *f*
 Brice & Bradley *f*
 Cass E. E. *f*
 Chantry Alfred *f*
 Cobb Bros. *f*
 Fuller M. C. *f*
 Haddock G. B. *f*
 Head W. T. *f*
 Hopson J. E. *f*
 Leonard B. V. *f*
 Long H. P. *f*
 Randolph W. F. *f*
 Snyder J. B. *f*

BELLE PLAINE

Bailey R. M. *f*
 Bardwell S. L. *f*
 Blake E. E. *f*
 Brand W. *f*
 Huston Geo. *f*
 Kennedy D. A. *f*
 Millner Tom H. *f*
 Millener John *f*
 Millenor & Docker *f*
 Robinson W. *f*
 Seasingeur W. C. *f*
 Sweet S. S. *f*

BELLEVUE

Campbell J. C. *f*
 Cole Eli Jr. *f*
 Dorchester H. G. *f*
 Slattery Miss Ella L. *f*
 Weinschenk, Kegler & Ahlers *f*

BLAIRSTOWN

Ehred W. H. *f*
 Hoebel P. *f*
 Lynch P. H. *f*
 Vail Chas. I. *f*
 Yocum Neal H. *f*

BLOOMFIELD

Adams Eliza *f*
 Dodge & Hockiss *f*
 Grider S. C. *f*
 Higbee & Son *f*
 Kelsey H. & F. *f*
 Law Wm. F. *f*
 Leach H. C. *f*

Lester A. C. *f*
 Mitchell J. H. *f*
 Moore F. W. *f*
 Patterson J. M. *f*
 Payne D. H. *f*
 Pennington C. L. *f*
 Plank & Mitchell *f*
 Rouch James *f*
 Scarbaugh J. F. *f*
 Smith J. M. *f*
 Sowers G. T. *f*
 Steckel W. J. *f*
 Wallace J. R. *f*

BOONE

Crooks J. S. *f*
 Dale R. F. *f*
 Gay F. D. *f*
 Hazlett C. S. *f*
 Herman J. H. *f*
 Jackman O. B. *f*
 Knight C. H. *f*
 Mather Irving C. *f*
 Means Brothers *f*
 Miller John F. *f*
 Sutton R. *f*
 Young C. O. *f*

BRIGHTON

Auld Jas. H. *f*
 Disberry Wm. *f*
 Peterson H. H. *f*
 Wienkirk I. *f*

BROOKLYN

Ballantyne Jas. W. *f*
 Heath S. W. *f*
 Holmes W. T. *f*
 Johnson W. L. *f*
 Leonard O. H. *f*
 McCara M. *f*
 Reed H. H. *f*

BURLINGTON

Albright J. W. *f*
 Blanke S. D. & Co. *f*
 Chamberlein F. W. *f*
 Connor E. W. *f*
 Doughty P. A. *f*
 Flanders S. H. *f*
 Frawley M. A. *f*
 Green R. M. *f*
 Greiner John *f*
 Greiner J. C. *f*
 Harper T. G. *f*
 Hutchison & Weaner *f*
 Jamison Geo. *f*
 Jagger T. W. C. *f*
 Kuhlmeier F. *f*
 Kuhlmeier A. H. *f*
 Lahee John *f*
 Lawrence J. M. *f*
 Low C. G. *f*
 Nisber J. E. *f*
 Phelps E. S. *f*
 Richter Ad *f*
 Ross C. H. *f*
 Scott W. R. *f*
 Smith W. S. *f*
 Sponholtz Chas. *f*
 Whipple Geo. *f*

CARROLL

Coburn R. E. *f*
 Drees Jos. M. *f*
 Griffith J. E. *f*
 Helfert Joseph *f*
 Macomber H. W. *f*
 Paine Theo. G. *f*
 Russell & Berger *f*
 Swender A. W. *f*
 Wattles C. L. *f*
 Weston F. W. *f*

CASCADE

Hayes James A. *f*
 Kearney A. F. *f*
 Kearney W. S. *f*
 McQuillan & Beatty *f*
 Streng J. P. *f*
 Sullivan J. D. *f*

CEDAR FALLS

Aitken W. T. M. *f*
 Chase F. N. *f*
 Chase Joseph *f*
 Fields A. M. *f*
 Fullerton F. G. *f*
 Gilkey H. S. *f*
 Higby S. *f*
 Hotchkiss F. A. *f*
 Johnson Henry *f*
 Knapp L. *f*
 Knapp W. H. *f*
 Leavitt Roger *f*
 Murray T. F. *f*
 Santee C. B. *f*
 Scott J. C. *f*
 Spicer C. *f*
 Torrey A. *f*

CEDAR RAPIDS

Anderson J. S. & Son
 General Insurance Agents
 Anderson Lew W. *f*
 Barber W. I. *f*
 Beechley N. K. *f*
 Belt & Proctor *f*
 Benedict L. *f*
 Black W. I. *f*
 Brokaw H. N. *f*
 Burton C. W. *f*
 Consigny A. H. *f*
 Dean A. W. *f*
 Foy Chas. *f*
 Giberson T. M. *f*
 Given C. E. *f*
 Graves J. G. *f*
 Groeltz A. F. *f*
 Henderson Geo. *f*
 Hull C. J. *f*
 Johnson C. J. *f*
 Meyers W. H. *f*
 Miles J. M. *f*
 Moore Jos. *f*
 Munger H. A. General
 Agent N. W. Mut. L. Ins.
 Co.
 Niles C. A. *f*
 Plumb A. G. *f*
 Safely R. I. *f*
 Shillinglaw Geo. *f*
 Storrs W. H. *f*
 Van Vechten C. D. *f*
 West A. R. & Son *f*
 Wisner W. K. *f*

CENTERVILLE

Clark & Peatman *f*
 Law Bros. *f*
 Moore W. G. *f*
 Rankin H. V. *f*
 Wilks P. B. *f*
 Wright Henry H. & Son *f*

CENTRE POINT

Dunbar Geo. B. *f*
 Hilliard B. M. *f*
 Newland H. D. *f*
 Oxley T. H. *f*
 Webb Frank *f*

CHARITON

Adams D. W. *f*
 Braden Jos. *f*
 Barger W. B. *f*
 Copeland J. C. *f*
 Crocker F. R. *f*
 Fancher G. G. *f*
 Penick C. E. *f*
 Stuart C. W. *f*
 Storie D. Q. *f*

CHARLES CITY

Baldwin H. C. *f*
 Cook J. S. B. *f*
 Crowell C. C. *f*
 Durkee H. *f*
 Franham S. F. *f*
 Fitzgerald H. *f*
 Ferguson C. M. *f*
 Goddard S. C. *f*
 Hand T. A. *f*

Heirbrecht W. C. /
Hine R. J. /a
Merriam C. D. /f
Miner F. B. /
Moreau J. G. /
Reiniger R. G. /
Spaulding C. B. /f
Waterbury L. H. /

CHEROKEE

Caden J. J. /
Foster Geo. T. /f
Green Jos. S. /f
Herrick E. C. /f
Hobart A. C. /f
McCulla Thos. /f
Metcalfe John /f
Molynaux A. R. /f
Moore C. E. /f
Mulvany Wm. /f
O'Donnell J. /
Robie R. /f
Scribner R. H. /f
Smith J. D. F. /f
Wakefield M. /f

CLARINDA

Chiles D. H. /
Good J. R. /f
Iowa Security Co. /f
Lorans & Sutherland /f
McCutchen E. G. /f
Orr Wm. /f
Rickey E. /a
Vance C. R. /

CLINTON

Baldwin I. /
Bulen J. W. /f
Carroll A. E. /f
Churcher J. H. /
Farr E. H. /f
Fegan J. D. /f
Gallagher J. /
Hall T. W. /
Haywood G. & Son /f
Heyer Albert /
Jefferies J. Q. Co. /f
Kehns Geo. /
Miller H. S. /
Murry T. R. /
Paddock A. H. /f
Paddock J. T. /
Patterson N. D. /f
Ryder /f
Thorburg F. /
Treat Geo. S. /a
Walsh, Walsh & Co. /f
Wilcox F. P. /f
Williams W. /
Woldenburg & Miller /f
Zing W. H. /f

COLFAX

Cragan Bros. /f
Mattern J. A. /f
Penquite & Rodgers /f
Tripp G. M. /f

CORNING

Bel J. E. /f
Chubb W. C. /f
Clark & Okey /f
Cole C. T. /f
Hillweg E. W. /
Miner & Runyon /f
Waterman & Meyerhoff /f

CORRECTIONVILLE

Bailey & Cate /f
Farnsworth N. /f
Green D. P. /f
Lee C. /f
Manuel Henry /f
Miller & Edmunds /f
Molynaux F. M. /f

COUNCIL BLUFFS

Anderson J. Q. /f
Bowman E. B. /f
Burritt C. B. /f
Caady I. N. /f
Cooper W. S. /f
Cory H. C. /f

Day & Hess /
Hart E. E. /
James & O'Keefe /f
Johnson J. D. /f
Knox Ohio /
Lange J. C. /
Larsen W. /
Longee E. H. /f
Longee & Towle /f
Lutz J. I. /f
Mackintosh W. G. /a
Odell E. H. /f
Officer R. P. /f
Otis D. W. /f
Paschel H. /f
Rohrer M. F. /f
Smith Forrest /f
Vorwinkle F. W. /f
Wadsworth S. B. & Co. /f
Waller Bros. /f
Wilson & Graham /f

CRESO

Doan J. G. /f
Durgin N. S. /f
Harlow J. L. /f
Hatch Lea /f
Hjerleld H. C. /f
Howe P. C. /f
Johnson C. V. /f
McPherson A. /f
Nash E. /f
Peck J. E. /f
Platt D. /f
Sampson E. /f
Wilbraham Wm. /f
Wood O. H. /f
Young H. W. /f

CRESTON

Brennan Pat /f
Delmege Geo. J. /f
Devos J. /f
Emerson R. W. /f
Emerson S. L. /f
Fuller C. H. /f
Hackert John /f
Haverick J. L. /f
Hayes John /f
Hood J. L. /f
Ide George A. /f
Keys A. N. /f
Kirch J. B. /f
Lutz M. /f
McCormack Jas. /f
Patt W. F. /f
Richards E. A. /f
Skinner Scott /f
Spurr A. H. /f

DAVENPORT

Babcock E. J. /f
Bemis Fred P. /f
Bemis Wells A. /f
Berwald, Mittlebush & Shutter /f
Bryant & Connors /f
Crane J. G. /f
Decker & Bechtel /f
Eastman W. H. L. /f
Eldridge J. M. /f
Humphrey W. W. /f
Kiser Oscar /f
Le Claire J. A. /f
Lyman Mrs. V. F. /f
McSteen J. R. & Co. /f
McManus P. W. /f
Meier C. H. & Son /f
Miller E. E. /f
Parker & Parker /f
Petursburger H. /f
Redfield G. W. /f
Radcliffe E. M. /f
Rohlfis, Rudolph & Co. /f
Snider W. H. & Son /f
Van Metre Ezra /f
Warriner W. C. /f
Whitcomb E. H. /f
Williams Howard L. /f
General Agent N. W. Mutual Life Ins. Co. /f
Wright J. F. /f

DECORAH

Abbey A. L. /f
Adams F. P. /f
Baker W. T. /f
Cutler Miss /f
Enger L. M. /f
Gibson R. F. /f
Groves A. H. /f
Larson Ed /f
Lovering Wm. /f
McKay C. /f
Miller Albert /f
Paine Herbert /f
Pike R. C. /f
Portman R. F. B. /f
Weiser Mrs. H. S. /f
Zuckmeyer Jacob /f

DENISON

Bond A. J. /f
Boynton D. L. /f
Burch E. K. /f
Cochren E. T. /f
Gulick E. /f
Jones M. E. /f
Lally P. E. C. /f
Luncy Bros. /f
McHenry W. A. /f
Naeve George /f
Romans R. A. /f
Shaw & Kuehnle /f
Walker Thos. /f
Wartham A. C. /f

DES MOINES

Abbott W. A. /f
Adkins John /f
Aldridge F. B. /f
Bowman De Forest /f
Bowman M. T. V. /f
Briggs Geo. C. /f
Cahill C. E. /f
Carey P. V. /f
Clark A. E. & Co. /f
Clifford W. N. /f
Collins C. H. /f
Cooper E. J. /f
Corley D. W. /f
Cox Miss Margaret /f
Dart R. P. /f
De Celle A. A. /f
Denny C. M. /f
Denny E. M. /f
Douglass J. M. /f
Dudley M. L. Gen. Agt. /f
N. Y. Life Ins. Co. /f
Foster S. A. /f
Fife John /f
Fleming Bros. Gen. Agts. /f
Mutual Life of N. Y. /f
Gardner J. J. /f
Gatchell Theo. F. /f
Graves F. H. /f
Green J. H. /f
Griffith R. A. /f
Hanna J. M. /f
Harmon J. P. /f
Harwood W. H. /f
Hawley H. B. /f
Hotchkiss J. C. /f
Hubbell Stephen /f
Humphreys W. T. R. & Co. /f
Johnson O. T. /f
Keenhold Geo. /f
Kelley W. W. /f
Kirkhorn M. H. /f
Klinefelter A. N. /f
Lantz & Co. /f
Lawrence W. A. /f
Lindsay C. C. /f
McCarthy J. H. /f
McNamara J. H. /f
Martin I. T. /f
Merritt E. H. /f
Miller E. S. /f
Morrison W. A. /f
Otis J. M. /f
Overton F. C. & Co. /f
Phillips Wm. /f
Price A. S. /f
Rawson C. E. /f
Rawson J. C. /f
Rumsey C. H. & H. E. /f
Gen. Agts. Penn Mut. L. /f
Ryman J. J. /f

Ryman, Howells & Co. /f
Samson C. M. /f
Scarles John H. /f
Scarles W. H. /f
Sharp J. G. /f
Sharpneck A. F. /f
Smith D. W. /f
Snook J. H. /f
Spinnery E. C. /f
Stiles A. W. /f
Stilbon A. C. /f
Sprague Samuel E. /f
Stockwell W. E. /f
Stotts W. T. /f
Swift A. /f
Tapley W. H. /f
Van Slyke C. B. /f
Von Collen C. W. /f
Walker A. D. /f
Watson Miss Mary C. /f
Wells C. /f
Wheatley L. A. /f
Wilmer & Wilmer /f
Wingate Alf. /f

DE WITT

Butler A. R. /f
Christianson E. /f
Cotton W. A. /f
Judge P. H. /f
Merrell N. A. /f
Nye C. M. /f
Pascal, Armentrout & Milligan /f
Tinker E. J. /f
Ward W. K. /f

DUBUQUE

Brandt F. G. /f
Brown G. R. /f
Chamberlain I. C. /f
Cleminson Isaiah /f
Duncan & Coates /f
Engel Nick /f
Fleming Bros. Gen. Agts. /f
Mutual Life of N. Y. /f
Garland J. C. /f
Henderson D. A. /f
Heraucourt J. H. /f
Hetherington H. S. /f
Hosford & Hoffman /f
Kendall J. P. /f
Kennedy M. T. /f
Kiene Peter & Son /f
Langworthy S. M. /f
McCarthy D. H. /f
Needham Jos. /f
O'Neill Bernard J. /f
Pier Jno. /f
Pizer A. L. /f
Plaister James /f
Platz Jno. H. /f
Quigley J. P. /f
Salot George /f
Schrup N. J. /f
Spaulding E. A. /f
Stendenbach J. P. /f
Torbert George L. /f
Walker & Rhomborg /f

DUNLAP

Moore & Patterson /f
Patterson S. J. /f
Phillips J. A. /f
Taylor A. B. /f
Wilmot S. E. /f

DYERSVILLE

Armstrong Geo. /f
Bahrning Chas. /f
Gadsden R. W. /f
Gehrig D. /f
Holbrook D. /f
Oehler Henry /f

DYSART

Bates H. K. /f
Hawks S. G. /f
Rice N. C. /f
Stewart T. H. /f
Filkins D. C. /f
McGrath & Bryan /f
McClough J. G. /f
Moats Lyman /f
Paine John /f
Pillsbury F. W. /f

IOWA—Con.**EDDYVILLE**

Boyd R. W. *f*
Miller J. H. *f*

ELDORA

Brooks W. J. *l*
Brownell C. F. *l*
Burling C. *f*
Carpenter N. S. *f*
Hardin J. F. *f*
Ibach Wm. *f*
Morman J. C. *f*
Sylverson S. C. *f*
Welch C. E. *f*
Whited Stephen *f*

EMMETSBURG

Bliven C. F. *f*
Brown M. L. *f*
Cahoon C. E. *f*
Consigny Geo. F. *f*
McCarty Geo. B. *f*
McCarty & Linderman *f*
McCue T. F. *f*
Menzies John *f*
Ormsby A. L. *f*
Ormsby E. S. *f*
Pieddie Alex. *f*
Whitford M. M. *f*

FAIRFIELD

Atkinson J. H. *f*
Brighton H. H. *f*
Dougherty J. E. *f*
Higley T. F. *f*
Hufstедler John *f*
Jacques A. W. *f*
Jones & Fullen *f*
Keltner H. B. *f*
Leggett & McKemy *f*
Lyming C. C. *f*
Maxwell T. B. *f*
Noble C. E. *f*
Raines J. A. *f*
Raney & Simmons *f*
Ross W. G. *f*
Sullivan Jas. *f*
Wilson & Hinkle *f*

FARMINGTON

Boler T. B. *f*
Caulter W. N. *f*
Foreman E. K. *f*
Hummelke Fredk. *f*
McCormick W. D. *f*
Turton B. *f*

FORT DODGE

Barton & Healy *f*
Blake F. J. *f*
Chantland P. W. *f*
Cummings W. H. *f*
Drake J. F. *f*
Flaherty T. F. *f*
Greene E. F. *f*
Hamilton C. M. *f*
Kitchen R. N. *f*
Mitchell M. J. *f*
Sherman G. B. *f*
Story P. C. *f*
Thomas Z. W. *f*
Wright T. H. *f*

FORT MADISON

Albright H. A. & Co. *l*
Albright J. W. *f*
Beck Wm. J. R. *f*
Kennedy George J. *f*
Nunn & Co. *f*
O'Kell C. L. *f*
Person Albert *f*
Scherfe F. *f*
Tschoepe & Co. *f*
Welsing H. *f*

GLENWOOD

Anthony M. N. *f*
Byers M. H. *f*
Ivory T. W. *f*
Lufkin E. L. *l*
Moulton Harvey *f*

Stephens T. L. *l*
Tipton Alex. *f*
Tipton S. A. *f*
Tipton S. B. *l*
Tolles H. *f*
Vanhorn G. B. *f*
Wickham J. E. & Co. *f*

GREENFIELD

Bacon Wm. *f*
Bickford E. H. *f*
Brooks J. E. *f*
Brown F. M. *l*
Burrell John *f*
Burrell W. W. *f*
Don Carlos W. W. *f*
Easton John *f*
Gilbert H. A. *f*
Martin W. B. *f*
McCollom W. D. *f*

GRINNELL

Beyer C. W. H. *l*
Brainard & Wilson *f*
Hamlin Geo. H. *f*
Harvey P. J. *f*
Norris D. W. *f*
Patton & Kemmerer *f*
Phillips Spencer *f*
Robbins H. H. *f*
Vigneaux J. C. *f*
White D. F. *f*

GRISWOLD

Bradley D. *f*
Briggs H. A. *f*
Brown Theodore H. *f*
Dickey G. S. *f*
Morford Wm. *f*
Patterson C. S. *f*
Totten J. A. *f*

HAMBURG

Aten W. L. *f*
Beach J. P. *f*
Holmes J. D. *f*
Rees S. C. *f*
Van Eaton Jas. *f*

HAMPTON

Clark A. L. *f*
Colden E. L. *f*
Jernegan C. F. *f*
Jones E. P. *f*
Osborne C. H. *f*

HARLAN

Beems I. W. *f*
Campbell & Tingle *f*
Buckman A. N. *f*
Hertert Bros. *f*
Mockler Thos. *f*
Redfield C. C. *f*
Whitney Bros. *f*
Wyland C. J. & D. M. *f*
Wyland O. P. *f*
Wyland W. W. *f*

HAWARDEN

Ashley J. A. *f*
Gearhart D. T. *f*
Gearhart & Son *f*
Granger T. E. *f*
Greiner T. A. *f*
Palmer W. H. *f*
Ross James *f*
Watkins F. E. *f*
West G. B. *f*
Weedon C. C. *l*

HUMBOLDT

Caditt H. S. *f*
Combs C. *f*
Coyle D. F. *f*
Dickey P. M. *f*
Garfield G. S. *f*
Prouty J. N. *f*
Strong S. P. *f*
Taft & Co. *f*
Willis H. S. *f*

HUMESTON

Calbreath O. V. *f*
Calbreath & Ratcliffe *f*
Casteel J. *f*

IDA GROVE

Besore E. C. *l*
Brusted Fred *l*
Curry B. F. *f*
Day E. L. *f*
Dixon Henry *f*
Engle James *f*
Hubbard G. C. *f*
Johnson W. E. *f*
Moorehead Frank *f*
Payne & Riddle *f*
Pettitt S. K. *f*
Riddle Geo. M. *f*
Scott & Cheney *f*

INDEPENDENCE

Bartle Ransom *f*
Brewer Frank *f*
Linden John W. *l*
McGuire Wm. P. *f*
Simmons O. C. *f*
Smealie G. B. *f*
Woodruff Geo. S. *f*

INDIANOLA

Berry W. H. *f*
Brown O. C. *f*
Carruthers W. B. *f*
Hartman E. W. *f*
Heiney G. W. *f*
McCarty W. P. *f*
Moshier L. L. *f*
Ogg A. L. *f*
Price A. *f*
Speer G. W. *f*
Spray Hattie E. *f*

IOWA CITY

Bailey W. H. *f*
Bowler J. J. *f*
Bradway E. *f*
Brennan Thos. *f*
Carney H. H. *f*
Deitz Jacob *f*
Dodder G. W. *f*
Ely E. H. *f*
Eppenetter Frank *l*
Hill James G. *f*
Mane E. A. *f*
Mordoff A. D. *f*
Novack J. J. *f*
Patterson E. O. *f*
Shepherd James *f*
Smith H. S. *f*
Stouffer J. C. *f*
Swire Roger *f*
Swisher S. E. *f*
Welch C. S. *f*

IOWA FALLS

Fiest R. A. *f*
Knapp T. B. *f*
Jones L. E. *f*
Livergood S. *f*
McCaullif M. *f*
McChesney F. I. *f*
Miller H. C. *f*
Peet F. D. *f*
Smith S. P. *f*
Woods W. H. *f*

JEFFERSON

Anderson S. B. *f*
Church & Lovejoy *f*
Dern G. B. *f*
Flack S. *l*
Forbes J. M. *f*
Gallagher J. A. *f*
Gilliland A. S. *f*
Head A. M. *f*
Henderson J. A. *f*
Henderson W. J. *f*
Howard I. D. *f*
Lawrence & Haag *f*
Marmoon C. L. *f*
Mecum H. L. *f*
Rose P. D. *f*

KEOKUK

Blood H. B. *f*
Collins & Heaslip *f*
Dygraft J. F. *f*
Field Frank C. *f*
Fulton Wm. *f*
Hobbs J. W. *l*
Mason J. K. *f*
Maxwell Geo. *f*
Meyling Phil *f*
Moody & Gibbons *f*
Parsons Geo. R. *l*
Powers J. T. *f*
Root Cohn *l*
Trick F. R. *l*
Tucker & Thorne *f*
Van Pappeladam J. B. *f*
Williams H. L. *f*
Willis O. H. *f*
Young J. *f*

KEOTA

Campbell R. F. *f*
Erdice A. L. *f*
Ritchey F. M. *f*
Smock F. M. *f*

KNOXVILLE

Aldrich James S. *f*
Burnett C. M. *f*
Cooper Aaron *f*
French J. T. *f*
Garretson I. H. *f*
Gibson T. G. *f*
Hamrick & Brobst *f*
Hart G. K. *f*
Johnston S. C. *f*
Kinkead A. *f*
Roberts W. *f*
Sperry E. F. *f*
Watson N. I. *f*
Wetherall W. E. *f*
Woodruff E. B. *f*
Wright O. L. *f*

LANSING

Albert Geo. W. *f*
Boeckh Julius *l*
Conway J. P. *f*
Hazelton S. H. *f*
Nelson N. A. *f*
Ruth James *f*
Trewin J. H. *f*

LA PORTE CITY

Holck C. *f*
Haylett P. L. *f*
Moore T. B. *f*
Pickerell W. F. *f*
Rolph William *f*
Shepherd W. H. *f*
Van Valkenburgh A. *f*
Wettstein F. E. *f*

LE MARS

Adams John *f*
Alline A. A. *f*
Andrews T. H. *f*
Colledge A. C. *f*
Dent W. H. *f*
Duns A. M. *f*
Thomason E. *f*
McNamara J. H. *f*
Moreton Bros. *f*
Hoffman J. H. *f*
Smith George M. *f*

LEON

Allen A. J. *f*
Arnold T. S. *f*
Beck C. W. & Son *f*
Varga F. *f*
Varga Stephen *f*

LUCAS

Barden J. T. *f*
Gray R. S. *f*
Morgan E. B. *f*

LYONS

Buell W. E. *f*
Halleran F. *f*
Henningens B. H. A. *f*
Manville I. N. *f*
Penn Henry *f*

Romer D. *f a l p g s b h t*
 Root C. L. *f p g*
 Whitney D. *f f*

MANCHESTER

Arnold H. F. *f*
 Beehler Max *f*
 Blair A. S. *f*
 Bronson Chas. E. *f*
 Carr E. M. *f*
 Cary F. F. *f l*
 Clemens Hugh *f l*
 Dunham Geo. W. *f*
 Granger H. C. *f*
 Huene O. E. *f*
 Jewell W. B. *f*
 Le Roy M. F. *f*
 Norris W. H. *f*
 Pierce G. G. *f l*
 Richardson Fred *f*
 Sanburn C. *f a*
 Seeds C. J. *f*
 Tirrell R. W. *f*
 Wellman B. J. *f*
 Yoran C. *f*

MANNING

Bennett F. A. *f*
 Funk E. M. *f*
 Laflar G. W. *f*
 Miller Fred *f*
 Sweesy W. D. *f*
 Tank & Hoffman *f*
 Thielman Henry Jr. *f*
 Werder A. *f*

MAPLETON

Ary S. *f*
 Chrisman C. E. *a*
 Chrisman W. H. *f*
 Cooper C. E. *f*
 Crow E. L. *f*
 Curtis O. E. *f*
 Griffin F. *f*
 Lutz T. B. *f*
 Monona County State Bank
 Quick Edwin *f*
 Scott H. N. & J. E. *f*

MAQUOKETA

Cravens & Kullmer *f*
 Dalsell M. *f*
 Dunbar C. M. *f*
 Ellis G. *f*
 Ellis Jas. W. *f*
 Farr C. W. *f*
 Fletcher D. A. *f*
 Gregory Fred C. *f*
 Gregory W. C. *f*
 Hubbard H. B. *f*
 Kekey F. D. *f*
 Lyman S. D. *f*
 McCaffrey O. H. *f*
 Ralston James *f*
 Rightmire G. H. *f*
 Thomas B. F. *f*

MARENGO

Bauserman A. S. *f l a*
 Branch J. H. *f t*
 Cook Frank *f t*
 Haas C. *f t*
 Lewis J. H. *f t*
 Morrison A. J. *f t*
 Simmons M. A. *f t*

MARION

Braska W. H. *f*
 Burza Geo. *f*
 English Rush *f l*
 Gray J. M. *f*
 Goodhue S. N. *f*
 Herbert A. K. *f*
 Hollis C. M. *f*
 Jackson R. C. *f*
 Kurtz C. H. *f*
 Stearns H. A. *f*
 Todd W. L. *f*

MARSHALLTOWN

Andrews Wm *f*
 Calhoun & Valentine *f t h*
 Gay A. E. *f*
 Giddings & Hufaker *f*

Halbert H. S. *f*
 Haviland M. H. *f*
 Hibben E. H. *f*
 Ribby Dr. W. B. *f*
 Norris Geo. R. *f*
 Saint & Cammack *f l a t*
 Shaw C. C. *f*
 Shockney J. N. *f*
 Sheldon J. B. *f*
 Shillato G. F. *a*
 Siefken *f*
 Statler *f*
 Suttan & Son *f*
 Vail John D. *f a*
 Van Orman J. G. *a*
 Willigrod E. *f*

MASON CITY

Babcock R. *f*
 Carr W. W. *f*
 Holcomb H. I. *f*
 Hubbard D. R. *f*
 Jackson M. Y. *f*
 Kirk I. R. *f*
 Kirschman F. A. *f*
 Knackstedt Wm. *f*
 McNider C. H. *f*
 Rule James *f*
 Russell F. J. *f*
 Schermerhorn M. S. *f l*
 Stanbery John S. *f*
 Stephenson E. E. *f*
 Telford D. W. *f*
 Wilber Richard *f*

McCREGOR

Crooke John *f*
 Walker C. W. *f l g t*

MECHANICSVILLE

Collier H. F. *f t*
 Gould C. E. *f*
 Helmer & Gortner *f t g*
 Kennedy L. E. *f*
 Onstott J. H. *f*
 Smith W. H. *f t*

MISSOURI VALLEY

Carlisle B. W. *f t*
 Dance F. M. *f t*
 Davis F. L. *f*
 Dewell J. S. *f*
 Hart F. W. *f t*
 Raymond W. T. *f*
 Tamisna A. L. *f*

MONROE

Bateman M. W. *f*
 Kipp Geo. C. *f*
 Koder S. *f*

MONTEZUMA

Carr J. W. *f*
 Clark Chas. R. *f*
 Fenner C. W. *f t*
 Light F. D. *f*
 McCready Mrs. Elizabeth *f*
 McKee W. C. *f*
 Rodgers Jos. W. *f l a*
 Roseman O. L. *f t*

MONTICELLO

Pond D. E. *f t l s*
 Reuger J. C. *f t*
 Ricker O. R. *f l a*
 Smith J. B. *f l g a t*

MOUNT Ayr

Allyn John H. *f*
 Bevis Bros. *f*
 Huggins Saville *f*
 Leathers F. F. *f*
 McMaster E. C. *f*
 McMaster J. S. *f l a*
 Parker N. A. *f l*
 Rose J. F. *f*
 Scott John E. *f*
 Shormplin A. R. *f*

MT. PLEASANT

Bartlett G. Geo. *f l*
 Buchanan W. R. *f l a*
 Clark J. K. *f t*

Goan R. A. *f t g*
 Hart & Jerrell *f*
 Keeler W. E. *f*
 Leach J. F. *f*
 Morehouse Chas. *f t*
 Van Horn T. J. *f*
 Walker H. D. *f l a*
 Weir H. L. *f t*
 Whiting & Gillis *f l*

MUSCATINE

Block Wm. G. *f*
 Brown Thos. *f*
 Bridgman Jos. & Son *f*
 Doran J. M. *f*
 Drake F. A. *f*
 Eversmeyer & Co. *f l l a*
 Fitzgerald T. R. *f*
 Griffin M. W. *f*
 Hall E. H. *f*
 Havercamp Martin *f*
 Huff R. B. *f*
 Remble & Prosser *f*
 Kennedy Wm. *f*
 Lambert D. M. & Son *f l*
 Leffingwell G. R. *f a*
 Monroe & Son *f a*
 Ogilvie Chas. B. *f*
 Pringley Chas. *f*
 Rosenberger N. *f*
 Scott Jos. & Co. *f*
 Sterling M. *f*
 Tappe Chas. *f l*
 Thompson Ella *f*
 Titus & Jackson *f*
 Wilson Misses *f*

NASHUA

Barnes C. H. *f l a*
 Case A. *a*
 Case Miss Carrie *f l*
 Dexter T. H. *f*
 Loser L. *f h t*
 McMillan & Bauder *f l t*

NEOLA

Bardsley John G. *f*
 Clark Riley *f*
 Egan Peter Jr. *f*
 Killpack W. H. *f*
 Nason W. G. *f*
 Watts F. M. *f*

NEVADA

Beatty John *f*
 Boyd J. H. *f*
 Fitzpatrick J. A. *f*
 Funson H. M. *f*
 Gifford E. W. *f*
 Greenawalt F. H. *f*
 Grove D. M. *f*
 Ingram Bros. *f*
 Martin J. F. *f*
 Mills A. H. *f*
 Shugart Z. *f l*
 Smith & Son *f l a*
 Vinje D. J. *f*
 Webb M. P. *f*
 Wilson O. W. *f*
 Worsley Arthur *f*

NEW HAMPTON

Bigelow G. *f*
 Birdsall W. W. *f*
 Braanon P. H. *f*
 Carr M. *f*
 Cotant E. W. *f*
 Darrow W. L. *f*
 Donovan Tim *f*
 Heath C. H. *f*
 McFarland O. A. *f l*
 McKee R. S. *f*
 Powers J. H. *f*
 Sandusky J. W. *f*
 Shaffer Bros. *f*
 Sheakley W. H. *f*
 Shoffer W. G. *f*
 Schute T. *f*
 Springer W. J. *f*
 Strike F. B. *f*
 Swale F. W. *f*
 Tooley John *f*

NEWTON

Alfree J. W. *f*
 Baker G. W. *f*
 Brunner J. G. *f a*
 Clark D. L. *f*
 Corak F. W. *f l*
 Eberhart D. *f*
 Eyerly J. B. *f*
 Finch Ed *f g*
 Fugard & Brown *f l t a*
 Laird J. A. *f*
 Mitchell E. W. *f*
 Mulhern P. *f*
 Seaton J. G. *f s*
 Vaughan J. J. *f g*
 Wright Arthur *f*

NORA SPRINGS

Gage Frank H. *f t*
 Schnedder H. F. *f t*
 Shaw H. B. *f l a h t*
 Waterbury O. P. *f a h t*
 Weitz H. E. *f t*

ODEBOLT

Helsell W. A. *f*
 Kaye J. F. *f*
 Schmitz John N. *f*
 Smith M. W. *f l*

OQDEN

Johnson J. *f*
 Larenzen F. *f*
 Sylvester C. B. *f l a*
 Wagers H. B. *f*

ORANGE CITY

Berg J. G. Vanden *f*
 Hesse Frank *f*
 Dodge C. A. *f*
 Lohr F. J. *f*
 Meide A. Vander *f*
 Slikkerveer H. *f*
 Stone R. W. *f*

OSAGE

Annis F. W. *f*
 Bell Jas. *a*
 Eaton W. L. *f*
 Humbert G. F. *f*
 Larson C. *f*
 Latridge Wm. *f*
 Marsh & Owen *f*
 Morse I. H. *f t*
 Sawyer & Woodard *f l*
 Tupper A. C. *f*
 Tuttle M. O. *f*
 Whitney A. F. & Co. *f*

OSCEOLA

Banta Mrs. L. E. *f*
 Burns J. F. *f*
 Estes J. M. *f*
 Fowler P. L. *f t*
 Graves John C. *f*
 Hall W. H. *f*
 Harper & Harper *f*
 Johnson A. S. *f*
 Johnson P. L. *f*
 Karr H. L. *f*
 Lewis John *f*
 McNeill D. T. *f*
 Oliphant D. M. *f*
 Park W. H. *f*
 Richards W. S. *f*
 Richards & Kyte *f*
 Ridgeway W. H. *f*
 Simons L. L. *f*
 Tate A. M. Jr. *f*
 Temple & Hardinger *f*
 Trent T. A. *f*

OSKALOOSA

Baughman A. J. *f*
 Carpenter T. *f*
 Cowen & Hambleton *f*
 Dobyns L. C. *f*
 Frankel Nate *f*
 Hawkins S. P. *f*
 Himes Ed K. *f l a*
 Jones W. G. *f*
 Lemmen Harry *f*
 Lyman H. W. *f*
 Morgan G. C. *f*

IOWA—Con.

O'Hara Ralph /
O'Hara S. /
Phelps Chas. /
Rice Jas. A. /
Richardson & Gentry /
Sellers J. C. /
Sheriff H. H. /
White G. R. /

OTTUMWA

Adler P. E. /
Ball & Myers /
Benson Ben S. /
Brown J. H. /
Christie W. S. /
Cresswell F. B. /
Criley E. B. /
Criley J. R. /
Davis E. B. /
Fetzer W. H. /
Galey & Rankin /
Gee & Berry /
Harman & Warden /
Hines Ed /
Holt E. A. /
Keott Conrad /
Kiestler G. W. /
Lafin L. L. /
Leonard A. /
Linton W. C. /
Mangan J. A. /
Moore John L. /
Moss J. W. /
Norton C. E. /
Sellers J. C. /
Smith J. D. /
Smith J. J. /

PANORA

Evans E. E. /
Galbraith J. M. /
Hemphill A. J. /
Lockwood Matt /
Thompson J. M. /

PELLA

Custer C. L. /
Jelsma S. J. /
Nollen Henry /
Stubenrauch & Gaas /
Thomassen John G. /
Van der Linden & Van Vleit /
Van Houten William /
Voorhees J. K. /
Warren Bros. /

PERRY

Chappalear H. A. /
Lee H. B. /
Nash H. A. /
Pearson A. T. /
Rouse H. /

RED OAK

Clements A. /
Groen L. D. /
Harding A. W. /
Henry & Gibson /
Plauck Wm. /
Shuey J. A. /
Simons B. E. A. /
Taylor Mrs. E. C. /
Wornley O. P. /

ROCK RAPIDS

Breen M. J. /
Casady P. M. /
Maxwell Austin /
Miller & Thompson /
Pierce H. B. /
Roach & Ramsey /

SANBORN

Babcock C. A. /
Boyd M. R. /
Day H. /
Harker Wm. H. /
Linden T. H. /
Rising Geo. M. /

Todd J. W. /
Walker Warren /
White T. D. /
Wilbur Morton /
Wilcox J. A. /

SCRANTON CITY

Ball Nelson /
Carney D. W. /
Norton Mrs. M. A. /
Quinn C. J. /

SHELDON

Conant Homer W. /
Eldredge D. G. /
McLaury C. S. /
Smith W. M. /
Stringfield T. B. /
Wellman C. E. /
Wykoff Jas. /
Wyman H. B. /

SHENANDOAH

Carter J. B. /
Ferguson W. P. /
Ferris E. S. /
Fliesback C. E. /
Lake A. S. /
Morse C. P. /
Morse R. W. /
Pears J. S. /

SIQOURNEY

Adams J. M. /
Brown C. M. /
Dern W. /
Hamilton & Wells /
Johnston C. G. /
Mackey C. H. /
Schulte & Howard /
Stockman D. T. /

SIoux CITY

Ball Miss Mary A. /
Bluet, Kirby & Lynch /
Cogwill T. G. /
Davis Geo. H. /
De Groodt C. A. /
De Orsay A. L. /
Eldridge C. E. /
Fellner Alex. /
Flynn & Hewins /
Hewitt Fred /
Jackson & Co. /
Mabie C. E. /
McCrory O. P. /
McKercher W. M. /
McMannus A. E. /
McNeill & Powell /
Mosher F. M. A. /
Murphy & French /
Peters E. C. /
Philbrook Edward F. /
Prescott T. C. & Co. A. /
Smith Gilbert A. /
Smith, Kirby & Lynch /
Van Dyke Wm. W. /
Weisz George F. /

SPENCER

Barnard F. M. /
Bemis W. S. /
Buck H. W. /
Buck V. W. /
Buckey C. P. /
Cardell Harry /
Childs E. R. /
Cornwall W. W. /
Dunwell C. A. /
Greene A. W. /
Griffin M. E. /
Heiser F. A. /
Hendeschoff C. D. /
Kirkpatrick Fred /
Lamar A. F. /
Martin Guy H. /
McConnell A. F. /
Miller Jno. A. /
Morgan E. G. Jr. /
Richardson Frank /
Robertson W. T. /
Smith H. N. /
Steele J. E. /
Tuttle & Randall /
Ward W. P. /
Winsett J. C. O. /

SPIRIT LAKE

Everett John /
Funk Geo. H. /
Keyser & Tuttle /
Hayward Wm. /
Osborne A. W. /

STORM LAKE

Aikin C. F. /
Brown F. J. /
Brown R. H. /
Campbell John /
Crowell W. W. /
Eastman Geo. H. /
Kerlin Geo. B. /
La Grange J. H. /
Lemou John R. /
Mack & De Land /
McNamara D. J. /
Miles Chas. /

STUART

Chalmers Stephen /
Crooks T. E. /
Dosh & Hartell /
Eustis W. A. /
Huntton W. P. /
Lawbaugh H. /
Monehan S. /
Tam J. S. /

SUPERIOR

Hurd A. E. /
Hurd W. W. /
West G. M. /

TAMA

Guernsey A. W. /
Jackson & Carson /
Murray Thos. /
Mills O. H. /
Williamson T. L. /

TIPTON

Brink E. M. /
Geiger W. G. W. /
Huber H. L. /
Miller Geo. W. /
Moreland G. W. /
Porter H. R. /
Roundtree J. H. /
Vanmeter E. /

TOLEDO

Bishop J. B. M. /
Chitty O. B. /
Clapp S. E. /
Connell W. M. /
Dexter W. A. /
Drabos Vincel /
Fee W. A. /
Harrigan Mrs. E. H. /
Hutchinson G. A. /
Leland S. C. /
Shanklin H. A. /
Smith A. G. /
Stiger H. J. /
Sven & Whittington /
Wagoner J. A. /
Walters E. C. /

TRAER

Bowen W. H. /
Kahler Marcus /
Ladd W. J. /
McCormick W. G. /
Pinkerton W. B. /

VILLISCA

Alger W. S. /
Boise J. S. /
Dolson H. D. /
Elliott Ed E. /
Gibbs E. C. /
Gilmore D. H. /
Greenlee F. P. /
Howland J. M. /
Ingman F. L. /
Jackson Jas. S. /
Minick P. D. /
Morford R. C. /
Turman M. S. /
West A. P. /
Woodward Bros. /

VINTON

Anderson W. H. /
Colcord E. H. /
Marietta J. E. /
Ridge Geo. W. /
Santmyer Chas. J. /
Tobin M. J. /
Whipple J. E. /
Williams J. G. /

WALNUT

Bardsley T. R. /
Johannsen J. B. /
Mosher O. /
Packard W. S. /
Ray A. C. /
Ronna J. F. /

WASHINGTON

Beamer John T. /
Brookhart S. W. /
Eicher Henry /
Folger A. S. /
Gray George B. /
Gray James H. /
Howe G. W. /
Howe Charles /
Keeley T. T. /
Keeley W. Morton /
Kellogg S. J. /
Lamphere F. E. /
Moothart W. P. /
Morton John W. /
O'Laughlin M. /
Pollard Jos. Jr. /
Schofield Wm. /
Taylor John M. /
Taylor Wm. /
Wilson C. J. /

WATERLOO

Bown C. W. /
Cutler D. A. /
Foult L. F. /
Goodrich J. H. /
Green C. F. /
Hallowell W. A. /
Harbin G. W. /
Hitchcock Nelson /
Keifer J. W. /
Kuhns J. H. /
Lincoln A. /
Miller Ed. /
Miller G. W. /
Mosher J. /
Pickett & Logan /
Shaffner E. C. /
Shultz H. C. /
Stillson & Kingsley /
Walker & Sweeney /
Weaver D. R. /

WAUKON

Hancock E. M. /
Howe L. A. /
Robbins F. H. /
Rose A. H. /
Sullivan C. S. /
Thompson S. R. /

WAVERLY

Barber G. S. /
Bodeker A. F. /
Burr H. S. /
Eifert John Sr. /
Grossman G. /
Harlett J. Y. /
Holt W. C. /
Kasemeier Henry /
Kingsley H. S. /
Long & Potter /
Morre S. H. /
Ruddick B. /
Smalley E. L. /
Van Vlack C. A. /

WEBSTER CITY

Roeye A. N. /
Burgess E. D. /
Counts A. W. /
Crosley G. W. /
Culp /
Doane I. /
Fenton B. B. /
Haswell A. /

Hellen N. H. *fl*
Himebaugh H. *fl*
Kamrar J. L. *fl*
Kelley B. *fl*
Knowles P. *fl*
Lake D. *fl*
Lee H. S. *fl*
McFerren Rube *fl*
Millard F. *fl*
Moreau *fl*
Tucker G. F. *fl*
Wambach George *fl*
Wesley Martin *fl*

WEST LIBERTY

Cheesebrough Charles *fl*
Cheesebrough George C. *fl*
Gregg Asa *fl*
Kent C. A. W. *fl*
Lase W. *fl*
Nichols E. C. *fl*

Patterson F. A. *fl*
Romaine A. *fl*
Shipman George C. *fl*

WEST UNION

Berkey E. H. *fl*
Blackman W. B. *fl*
Branch B. W. *fl*
Colby Wm. *fl*
Finch B. W. *fl*
Green H. R. *fl*
Green T. L. *fl*
Lathrop Chas. *fl*
Loftus Thomas *fl*
McMasters A. H. *fl*
McMasters J. G. *fl*
Parker J. C. *fl*
Rolf Theo. *fl*
Whitmore F. Y. *fl*
Zeigler & Weed *fl*

WHAT CHEER

Beem J. C. *fl*

Burk Richard *fl*
Davis Reuben *fl*
Harbison & Legoe *fl*
Lawson D. L. *fl*
Vore C. H. *fl*

WILTON

Bacon F. *fl*
Geisler James L. *fl*
Michael F. C. *fl*
Park J. E. *fl*
Walker J. D. *fl*

WINTERSET

Baldock A. C. *fl*
Barton Wm. *fl*
Cornell W. *fl*
Flannigan John *fl*
Gilpin T. C. *fl*
Green Mrs. *fl*
Gump J. F. *fl*

Henry W. C. *fl*
Hooks L. C. *fl*
Leech S. B. *fl*
Leonard & Thompson *fl*
McCall E. E. *fl*
Miller Jos. *fl*
Null F. E. *fl*
Poffinberger G. W. *fl*
Shannon Joseph *fl*
Shriver Alvin *fl*
Stark S. W. *fl*
Swift J. L. *fl*
Tullis Bros. *fl*
Weeks A. W. C. *fl*
White C. F. *fl*

WYOMING

Aldrich Henry *fl*
Graft J. R. *fl*
Peck W. H. *fl*
Wurtelot W. H. *fl*

KANSAS.**ABILENE**

Anderson W. H. *fl*
Cowles A. J. *fl*
Cowles W. G. *fl*
Coye W. J. *fl*
Craston B. C. *fl*
Davidson W. T. *fl*
Ellison S. J. *fl*
Graves J. A. *fl*
Hewett M. H. *fl*
Humphrey H. L. *fl*
Jolley M. P. *fl*
Merrill Geo. *fl*
Putnam E. G. *fl*
Seeds H. E. *fl*
Smith Robert N. *fl*
Southworth H. *fl*
Wilson W. W. *fl*

ANTHONY

Burch Thos. F. *fl*
Denlinger F. D. & H. M. *fl*
George W. R. *fl*
Hurd W. H. *fl*
Huston & McCulloch *fl*
Jameson A. *fl*
Jennings Lew G. *fl*
Jennings O. *fl*
Jones H. P. *fl*
Lockwood Mgt Co. *fl*
Marsh T. B. *fl*
Morris Chas. *fl*
Rowell & Watt *fl*
Wilson Levi *fl*

ARCADIA

Anderson C. O. *fl*
Jewell F. A. *fl*
Jewell L. R. *fl*
Kominty W. D. *fl*

ARGENTINE

Hambrick J. W. *fl*
Smith Hugh J. *fl*
Toothaker G. W. *fl*
Trevor C. J. *fl*
Wright G. L. *fl*

ARKANSAS CITY

Andrews & Sherburne *fl*
Benedict Jas. *fl*
Brown Bros. *fl*
Gilmer R. A. *fl*
Hess F. J. *fl*
Huey J. L. *fl*
Nelson W. H. *fl*
Snyder & French *fl*
Snyder L. *fl*
Stoll C. D. *fl*
Topflice J. C. *fl*

ASHLAND

Arnold & Carson *fl*
Svenson M. G. *fl*
This Geo. Jr. *fl*

ATCHISON

Bels John *fl*
Collett W. B. *fl*
Fisher John K. *fl*
Goodrich C. F. *fl*
Hawkey F. W. *fl*
Horn H. B. *fl*
Pates Fred *fl*
Platt A. R. *fl*
Rogers & Carr *fl*
Seitz R. F. *fl*
Spaulding J. A. *fl*
Styles C. E. *fl*

ATTICA

Day Thos. L. *fl*
Hatfield H. *fl*
Jobes Chas. *fl*

AUGUSTA

Bixler J. P. *fl*
Brown W. E. *fl*
Ruland F. *fl*
Shannon W. A. & Son *fl*

BAXTER SPRINGS

Daniels C. W. *fl*
Haines Geo. H. *fl*
Jones W. W. *fl*
March Wm. *fl*
Uric A. B. *fl*
Warner Alex. Jr. *fl*

BELLE PLAINE

Forney J. W. *fl*
McHarg S. M. *fl*
Persons C. R. *fl*
Sturge O. C. *fl*
Watson O. C. *fl*

BELLEVIEW

Bradford J. H. *fl*
Caswell J. E. *fl*
Crammer S. C. *fl*
Hamilton A. A. *fl*
Hamilton D. W. *fl*
Knowlton G. E. *fl*
Lacey I. A. *fl*
Noble T. M. *fl*
Perry C. *fl*
Savage I. O. *fl*
Towle E. B. *fl*

BELOIT

Applegate F. M. *fl*
Bailey W. G. *fl*
Barnes J. T. *fl*
Bartleson J. W. *fl*
Brown C. *fl*
Chubb P. G. *fl*
Gaylord I. W. *fl*
McCracken W. W. *fl*
McIntyre D. M. *fl*
Mead A. G. *fl*
Moon A. D. *fl*
Owen Henry C. *fl*
Sturgis W. J. *fl*
Tice J. E. *fl*
Young I. D. *fl*

BLUE RAPIDS

Brown F. K. *fl*
Giltner & Strong *fl*
Loomas A. J. *fl*
McPherson John *fl*
Stocks & Burr *fl*
Taber I. S. *fl*

BURLINGAME

Canfield W. D. *fl*
Chambers J. M. *fl*
Doty G. W. *fl*
Dutton Benj. *fl*
Empil G. E. *fl*
Sheldon, Davis & Co. *fl*
Slaughter J. P. *fl*
Taylor E. S. *fl*

BURLINGTON

Brown C. O. *fl*
Cheney H. B. *fl*
Gray H. *fl*
Hall Geo. G. *fl*
Holmes J. H. C. *fl*
Lamborne H. T. *fl*
Lockwood E. M. *fl*
Mauck O. P. *fl*
Rudrauff Chas. *fl*
Rudrauff Wm. *fl*
Wiseman T. *fl*
Woodford Bros. *fl*

CALDWELL

Kelling & Dill *fl*
Lewis S. P. G. *fl*
Robson Geo. W. *fl*

CAWKER CITY

Branch V. H. *fl*
Hawkins Chas. H. *fl*
Higley Frank *fl*
Kennedy W. G. *fl*
Mathews G. W. *fl*
Smith C. A. *fl*
Tucker Lewis S. *fl*

CEDAR VALE

Dale G. R. *fl*
Dale W. W. *fl*
Marsh J. R. *fl*

CHANUTE

Allen R. N. *fl*
Bailey S. *fl*
Buchanan John W. *fl*
Farrelly H. P. *fl*
Heller John *fl*
Hurt P. *fl*
Johnson L. H. *fl*
Johnston W. E. *fl*
Jones T. C. *fl*
Word & Henry *fl*

CHEROKEE

Howe Chas. *fl*
Lisenber T. J. *fl*
Lucas G. W. H. *fl*
Pye G. W. *fl*
Skidmore C. B. *fl*

CHERRY VALE

Cobin C. J. *fl*
Courtney J. M. & Co. *fl*
Hastings E. D. *fl*
Newton Revilo *fl*
Penix J. C. *fl*
Thompson Bros. *fl*
Willis J. W. & Co. *fl*
Wilson A. L. *fl*

CHETOPA

Bedell L. M. *fl*
Bell A. R. *fl*
Clark E. W. *fl*
Herman S. T. *fl*

CLAY CENTRE

Gay F. V. *fl*
Iams Resin *fl*
Parrott Fred *fl*
Poindexter J. S. *fl*
Fuckey Walter *fl*
Sturgeon W. O. *fl*
Stratton G. M. *fl*
Wickstrum & Swensen *fl*
Williams & Boner *fl*
Windgrove A. *fl*

CLIFTON

Dolan T. M. *fl*
Needham N. B. *fl*
State B. K. *fl*
Woodruff E. F. *fl*

CLYDE

Borton Baker *fl*
Cowell W. F. *fl*
Griffin F. A. *fl*
Knapp G. W. *fl*
Morris A. E. *fl*
Randolph J. *fl*
Van De Mark C. W. *fl*

COFFEYVILLE

Ball C. M. *fl*
Burns S. J. *fl*
Isham H. H. *fl*
Long C. L. *fl*
Perkins Luther *fl*
Scurr Thomas Jr. *fl*

COLUMBUS

Curran C. E. *fl*
Dennison A. S. *fl*
Dill & Co. *fl*
Eddy W. P. & Co. *fl*
Heaton & Smith *fl*
Henson H. B. *fl*
Hicks H. A. *fl*
Logan J. Wilbur *fl*
McNeil C. A. *fl*
Perkins Joe P. *fl*
Skidmore A. H. *fl*
Weisbrod F. *fl*

KANSAS—Con.**CONCORDIA**

Daugherty F. W. *l*
 Darlington W. *f*
 Lane Frank *f*
 Lane F. E. *fl*
 Savary W. H. *flk*
 Stackhouse & Troup *fltpg*
 Tittle George W. *fl*
 Tyner J. H. *flapgst*
 Wilmoth & Ackley *f*

COUNCIL GROVE

Behring F. B. *f*
 Jacobs J. T. *f*
 Marks F. B. *l*
 Mead L. *f*
 Owens J. K. *f*
 Phillips *l*
 Shamleifer W. F. *f*
 Spencer A. B. *f*
 Stewart H. *f*

DIQHTON

Forrester J. W. *fltk*
 Fuller Winslow *flk*
 Patten J. M. *fltkltpg*
 Simmons J. S. *f*

DODGE CITY

Coolidge W. T. *fltl*
 Dawson I. F. *fa*
 Fitzgerald W. J. *fltl*
 Hudson A. H. & Co. *fa ltpg*
clskt

DOWNS

Bates S. P. *fltl*
 Carpenter B. *fltl*
 Harrison D. B. *fltl*
 Pugh J. W. *fltl*
 Walters C. H. *fltl*

EL DORADO

Basset O. S. *fltl*
 Black S. E. *fltl*
 Curry W. H. *f*
 Fullenwider Geo. *f*
 Hanes John *l*
 Hiser J. W. *fa*
 Hoyt Mr. *f*
 McGinnis W. F. *f*
 Meeks B. F. *f*
 Robinson Edgar *f*

ELK CITY

Masterman E. E. *fltl*
 Slocum A. R. *fltl*

ELLSWORTH

Clawson A. C. *f*
 Davis H. S. *f*
 Harris N. *f*
 Houston M. *f*
 Seaver L. H. *f*
 Wellington E. W. *fltl*
 Wilson James *fa*

EMPORIA

Burnett J. C. *fltl*
 Burton J. T. *f*
 Dunlap Howard *fltpg*
 Eastman J. W. *f*
 Fisher H. W. *f*
 Fletcher Chas. *f*
 Jones W. J. *f*
 Little M. C. *fltpg*
 Littlefield & Willis *f*
 Rees Bros. *f*
 Siling W. *f*
 Smelzer W. R. *l*
 Thomas R. D. *f*
 Wells Bros. *f*

ENTERPRISE

Frey James *fltl*
 Hare Stuart *fltl*
 Marsh R. P. *fltl*
 Staats Wm. H. *fltl*
 Topping C. V. *fltl*

ERIE

Henderson R. C. *f*
 Jefferies W. C. *fltl*
 Wells B. C. *fltlapgst*
 Wells J. A. *fltlact*
 Work W. W. *f*

EUREKA

Hodson Howard *f*
 Jackson M. V. *fltl*
 Johnson Bros. *fltl*
 Lamb & Howard *fltkl*
 Little M. W. *f*
 Moore P. M. *f*
 Rodman David *fltl*
 Smyth & Drew *fltl*

FLORENCE

Bowles C. J. *fltl*
 Howe S. W. *f*

FORT SCOTT

Cheney O. A. *f*
 Cornany W. A. *f*
 Hanna John C. *f*
 Kennedy Geo. C. *f*
 Martin C. F. *f*
 Mitchell & Chapin *fa*
 Mosher S. P. *f*
 Nyers C. C. *f*
 Nelson C. C. & Co. *fa*
 Othick & Campbell *fa*

FREDONIA

Cady Atwood *f*
 Cantrall C. R. *f*
 Crawford T. M. *f*
 Jenner H. A. *f*
 Johnson Bros. & Browning *f*
 Stivers & Kennedy *f*
 Thorn E. C. *f*

GALENA

Sawyer C. L. *fltpg*
 McCullagh Jno. *fltpg*
 Wheatley G. W. *f*

GARDEN CITY

Chapman C. E. *a*
 Griggs M. F. *fltk*
 Hambleton O. *fltl*
 Munger J. J. *fltl*

GARNET

Cary Joe *fltl*
 Everline G. M. *fltlapgst*
 Gordon L. H. *f*
 Gregg Allie C. *fltl*
 Hiatt J. G. *fltlpgt*
 Her Geo. W. *fltl*
 Knight W. O. *fltl*
 Marshall C. *a*
 Mellen W. H. *fltl*
 Messenger A. C. *fltl*
 Rankin & Baird *fltl*
 White M. L. *fltl*

QIRARD

Beezley & Hawley *fltl*
 Brown James *fltl*
 Grantham & Satterthwaite *fltl*
 Higgie John *f*
 Irely R. G. *l*
 Mason E. M. *fltl*
 Perry T. T. *f*
 Smith James A. *f*
 Wells Ed E. General Insurance Agent.

GOODLAND

Haller H. M. *fltk*
 Leonard Thos. P. *f*
 Tomblin M. B. *fltl*

GREAT BEND

Brinkman J. G. *fltk*
 Gunnell W. M. *fltlakl*
 Ogle B. F. *f*
 Palmer D. B. *fa*
 Rasor J. *a*
 Smith C. M. *f*
 Torrey W. *a*
 Warren R. B. *fltlapgstkl*

GREENLEAF

Atkinson John *f*
 Bliss J. W. *f*
 Goodwin G. G. *f*

GRENOLA

Boys Bros. *fltl*
 Deal J. F. *fltl*
 Lehev John L. *fltl*
 McClellan J. W. *fltl*
 Stancart J. E. *fltl*

HALSTEAD

Burrows T. F. *fltl*
 Marcy D. S. *fltl*
 McNair J. H. *f*
 Reisen & Wells *fltl*

HARPER

Fisher E. J. *fltl*
 Lowe Fred *fltl*
 Pert H. G. *fltl*
 Washbon K. A. *f*
 Washburn Jas. G. *fltl*

HAYS CITY

Brosins C. C. *fltl*
 Judd L. *f*
 Miller C. W. *fltlapgst*

HERINGTON

Amand Leroy *f*
 Buck C. T. *fltl*
 Cook S. G. *f*
 Hull C. N. *f*
 McMillan G. A. *f*
 McNaspy James *f*
 Thurman P. L. *f*
 Wilson Bros. *fltpg*

HIAWATHA

Allen & Johnson *f*
 Bechtel A. F. *f*
 Bossart H. *a*
 Clark T. C. *fltl*
 Ham M. G. *f*
 Herbert L. S. *f*
 Howie J. W. *f*
 Jones J. A. *f*
 Kiner Miss Rebecca *l*
 Klinefelter J. K. *fltpg*
 McLaughlin A. *f*
 McMillen F. W. *a*
 Pierce C. H. *f*
 Smalley M. S. *l*
 Wharton Geo. E. *l*

HOWARD

Darby J. F. *fltlapgst*
 Douthitt & Ayres *fltl*
 Eby A. F. *f*
 Hamar & Son *fltl*
 Hills P. S. *fltl*
 McCausland W. A. *fltl*
 Reid George K. *fltl*
 Zirn H. G. *f*

HUMBOLDT

Davis C. E. *fltl*
 Heath J. A. *f*
 McKinley George *a*
 Schaffner Chas. *f*
 Thwaites F. J. *f*

HUTCHINSON

Brown & Bigger *fltl*
 Higby A. J. *f*
 Moore & Chrisman *fltl*
 E. A. Smith & Co. *fltl*
 Winnie & Winnie *fltlapgst*
 Woodward J. J. & Co. *fa*

INDEPENDENCE

Boggs Wilbur F. *fltl*
 Devoe B. F. *a*
 Gilmore G. E. *fltl*
 Nevins J. M. *fltl*
 Otto James A. *fltl*
 Shulthiss A. L. *fltl*
 Underhill J. B. *fltl*
 Watson Stewart *fltl*

IOLA

Cummings W. A. *fltl*
 Gosborn J. B. *f*
 Henderson H. L. *fltl*
 McCann James *fltl*
 Northrup L. L. *f*

JUNCTION CITY

Batchelder & Vaughan *fa*
 Blattner R. *f*
 Chase Geo. W. *f*
 Clough A. *fltl*
 Dora T. W. *fltl*
 Hall F. G. *l*
 Hartman John *f*
 Kennedy Thos. *f*
 Manley & Manley *fltl*
 Mead H. H. *fltl*
 Morris & Blattner *f*
 Orr Samuel *f*
 Pierce A. C. *f*
 Poindexter J. S. *l*

KANSAS CITY

Armstrong Mac *f*
 Burt, Bridgens & Adams *f*
 Campbell & Twist *f*
 Cox J. S. *f*
 Ferree L. C. *f*
 Griffin C. D. *f*
 Griffith T. D. & Son *f*
 Henshall Thos. *l*
 Jenkins & Parsons *fltl*
 Lemmon David *f*
 Marsham R. L. *f*
 Mapherson H. P. *f*
 Merriam W. *f*
 Northcutt J. W. *f*
 Pease J. M. *f*
 Potter Eli *l*
 Tracy F. M. *l*
 Wilson Chas. *f*

KINOMAN

Craguin J. A. *fltl*
 Humphreys J. D. *fltpg*
 Vandiventer C. C. *fltpg*
 Woolsey H. H. *fltl*

KINSLEY

Best & Edmonds *fltl*
 Bingham H. C. *fltpg*
 Brelsford James I. *f*
 Colver C. B. *f*
 Taylor E. D. *fltl*

KIRWIN

Cameron, Hull & Co. *fltl*
 Dudson Sam'l *fltl*
 Hull H. R. *fltl*
 Monell C. E. *fltl*
 Royce H. A. *fltl*

LA CYGNE

Citizens Bank *fltpg*
 Donaldson J. V. *fltpg*
 Leasure M. F. *fltpg*
 Linn Co. Bank *fltpg*

LARNED

Charles W. W. *fltl*
 Smith W. B. *fltl*
 Vernon W. H. *f*

LAWRENCE

Banks Geo. A. *f*
 Blair & Seairs *f*
 Chadwick Charles *f*
 Charlton John & Son *fltl*
 Cooper A. A. *f*
 Edwards C. L. *f*
 Gleason & Whitman *f*
 Kilworth John L. *fltl*
 Perkins & Morris *fltl*
 Sellig A. L. *fltlapgstlms*
ck

STEELE L. S. *f***WHITE JOEL S. *fltl*****LEAVENWORTH**

Booth Wm. *l*
 Chacey & Scruggs *fltpg*
 Darragh P. W. *f*
 Fletcher W. B. *fltpg*
 Graham Jas. G. *f*
 Guion & Bowen *f*
 Jansen Henry *fltpg*
 Keller H. C. *f*
 Kelly W. D. *fltl*
 McGee Jas. *f*
 Olund J. S. *fltl*
 Smith Martin *f*
 Suydam & Harlow *f*

LEROY

Covert J. S. *f*
 Fochle Frank *f*
 Garner G. W.
 High C. T.
 Tiltonson J. A.

LINCOLN

Abel Geo. D. *f*
 Austin W. A. *f*
 Bower E. S. *f*
 Brunt S. H. *f*
 McFarland E. A. *f*
 Marshall A.
 Moss P. E. *f*
 Nequette Bros. *f*
 Nimmons A. M. *f*
 Stover P. B. *f*
 Weeks G. M. & Co. *f*

LINDSBORG

Agrellus A. E. *f*
 Webel Carl *f*
 Wilber Allen *f*

LOUISBURG

Cardwallader R. H. *f*
 Moore S. W. *f*

LYNDON

Buckman & Hussey *f*
 Cooper Mrs. Kate
 Hodgen J. M. *f*
 Morris & Roell *f*
 Pleasant & Pleasant *f*
 Wilson A. L. *f*

LYONS

Aikin John & Co. *f*
 Berry C. H. *f*
 Blair C. Howard *f*
 Davis John
 Gries M. L. *f*
 McMillan A. L. *f*
 Nicholas W. T.
 Ralston J. T. *f*
 Sutton Sam'l

MANHATTAN

Barner O. C. *f*
 Elliott F. B. *f*
 Fearon J. B. *f*
 Flank L. Irish *f*
 Helder P. C. *f*
 Limbocker J. N. *f*
 Limbocker W. A. *f*
 Purcell E. B. *f*
 Robertson J. A. *f*
 Wood J. M. *f*
 Baylston M. L. *f*
 Lewis C. S. *f*
 Lynn J. D. *f*
 McRoberts J. W. Jr. *f*
 Spencer C. A. *f*
 Stafford D. H. *f*

MANKATO

Billings H. A. *f*
 Brewerton S. S. *f*
 Case A. E. *f*
 Jones P. F. *f*
 Tomlinson W. M. *f*
 Wilson J. R. *f*

MARION

Billings H. A. *f*
 Brewerton S. S. *f*
 Case A. E. *f*
 Jones P. F. *f*
 Tomlinson W. M. *f*
 Wilson J. R. *f*

MARYSVILLE

Barks Wm. *f*
 Broughton John A. *f*
 Brown John *f*
 Draheim E. G. *f*
 Easterly J. P. *f*
 Farwell J. D. *f*
 Fulton E. R. *f*
 Gatchell & Bartlett *f*
 Pollack Theo. *f*
 Redmond W. W. *f*
 Schmidt & Koester *f*
 Smith J. W. *f*
 Winkler J. B. *f*

MCPHERSON

Allison & Salthouse *f*
 Allison Geo. W. *f*
 Barber & Co. *f*

Boggs Theodore *f*

Cary W. H. *f*
 Clark F. B. *f*
 Cowgill J. *f*
 Hill J. F. *f*
 Hulse E. W. *f*
 Olson O. P. *f*
 Pyle H. E. *f*
 Regnell J. A. *f*
 Simpson & Johnson *f*
 Simpson M. P. *f*
 Waller & Wright *f*
 Wright John R. *f*

MEADE

Rieman E. F. *f*
 Young W. H. *f*

MEDICINE LODGE

Chapin F. B. *f*
 Cook & Palmer *f*
 Houchin A. M. *f*
 Jones C. S. *f*
 Lindley T. L. *f*
 Rouse W. T. *f*

MILTONVALE

Morris John B. *f*

MINNEAPOLIS

Bartley T. W. *f*
 Buell L. A. *f*
 Hurley G. W. *f*
 Jackman A. C. *f*
 Midgley Thos. *f*
 Parker B. F. *f*
 Powell S. J. *f*
 Silver J. T. *f*
 Smith J. W. & Co. *f*

MOUND CITY

Ackerman R. W. *f*
 Campbell E. F. *f*
 Gove J. L. *f*
 Markley D. O. *f*
 Trego J. H. *f*

NEODESHA

Blakeslee T. *f*
 Carpenter Samuel Jr. *f*
 Demoss J. K. *f*
 Hill A. L. *f*
 Sutherland J. W. *f*

NEWTON

Andres Gus
 Benfer C. T. *f*
 Brining & Spencer *f*
 Classen C. F. *f*
 Gilbert A. B. *f*
 McLain E. S. *f*
 Nickle Max *f*
 Parmelee & Benfer *f*
 Parris & Co. *f*
 Patterson J. W. *f*
 Quiring & Andres *f*

NICKERSON

Butt A. D. *f*
 North A. *f*
 Riddell A. *f*
 Stewart J. M. *f*

NORTON

Bridegroom J. *f*
 Brown J. C. *f*
 Hazleton & Wilder *f*
 Hicks E. D. *f*
 Means S. *f*
 Poe H. M. *f*

OLATHE

Betts W. H. *f*
 Hammond James A. *f*
 Hayes A. L. *f*
 Henry Bros. *f*
 Herman J. E. *f*
 Hubbard & Taylor *f*
 Owen E. C. *f*
 Pettyjohn J. L. *f*
 Tracey H. E. *f*

OSAGE CITY

Bodell L. L. *f*
 Dodds Mrs. A. M. *f*

Radcliffe H. J. *f*
 Shaw & Son *f*
 Shaw Geo. *f*
 Sprague & Jones *f*

OSAGE MISSION

Baxter T. M. *f*
 Brogan James A. *f*
 Herod A. R. *f*
 Nation C. S. *f*
 Thomason Jeff *f*

OSAWATOMIE

Campbell W. H. *f*
 Chestnut J. C. *f*
 Guthrie F. L. *f*
 Maynard H. S. *f*
 Smith H. B. *f*

OSBORNE

Evans W. E. *f*
 Exchange Bank *f*
 Hindman Bros. *f*
 Mitchell J. K. *f*
 Nequette C. M. *f*
 Smith M. E. *f*
 State Bank *f*

OSKALOOSA

Graves H. J. *f*
 Johnson J. H. *f*
 Sheldon S. H. *f*
 Smith D. M. *f*

OSWEGO

Atchison F. H. *f*
 Ball O. *f*
 Deming Investment Co. *f*
 Dickerman A. T. *f*
 Marley J. W. *f*
 Minton J. W. *f*
 Mosher Robert *f*
 Shook W. F. *f*
 Wilkin C. A. *f*
 Williams M. E. *f*

OTTAWA

Bagby R. C. *f*
 Beachy U. M. *f*
 Curl W. A. *f*
 Franklin A. *f*
 Jordan & Mechim *f*
 Miller F. R. *f*
 Mundy J. A. *f*
 Parkinson C. W. *f*
 Purdy & Moyer *f*
 Ridgway Chas. *f*
 Robins Chas. *f*
 Rockyfellow J. W. *f*
 Stinebaugh Geo. D. *f*
 Swift W. F. *f*
 Wilkinson F. A. *f*

PAOLA

Carpenter W. J. *f*
 Crossan & Lane *f*
 Gupta W. B. *f*
 Joyce W. L. *f*
 Long O. *f*
 Mallory C. H. *f*
 Masters W. *f*
 Riley & Clarke *f*
 Robinson G. L. *f*
 Self S. L. *f*
 Sheldon E. J. *f*
 Stein F. B. *f*
 Voglesong Geo. D. *f*
 White L. D. *f*
 Wilgus F. M. *f*

PEABODY

Hess J. F. *f*
 Kansas State Bank *f*
 Kollock F. H. *f*
 Shape, Tressler & Lark *f*
 Van Nest H. B. *f*

PITTSBURGH

Candgon John
 Coffey T. W. *f*
 Georgia & Wood
 Howard George
 Carlton R. E. *f*
 Rankin J. A. *f*
 Stryker J. W. *f*

Swan W. A. *f*
 Wenius F. C. *f*
 Yarcho W. H. *f*

PLEASANTON

Babb J. W. *f*
 Conkle D. S. *f*
 Johnson J. W. *f*
 Kent A. M. *f*
 Kincaid R. R. *f*
 McCullough W. W. *f*
 Sanders G. R. *f*
 Turner J. W. *f*

ROSEDALE

Purville W. A. *f*

RUSSELL

Dollison J. F. *f*
 Harabargar & Yerger *f*
 Hoover V. K. *f*
 Hulett Frank *f*
 Mann H. *f*
 Spencer Gay A. *f*
 Voorhis E. W. *f*

SABETHA

Doolittle R. C. *f*
 Doolittle W. A. *f*
 Graham F. E. *f*
 Guild Geo. A. *f*
 Hesselbine Leroy *f*
 Hook Geo. W. *f*
 Sargent W. G. *f*
 Slosson Sam *f*
 Whitehall C. T. *f*

ST. MARY'S

Beakey A. J. *f*
 Cass James *f*
 Connaughton Thos. Jr. *f*
 Fitzgerald Chas. *f*
 Houghton H. A. *f*
 Ryan T. J. *f*
 True W. H. *f*

SALINA

Berg Alex. *f*
 Bondi August *f*
 Braniff & Cravens *f*
 Culp John P. *f*
 Duncan Joe *f*
 Fitzpatrick T. D. *f*
 George Smith *f*
 Hayden S. S. *f*
 Henne Chas. *f*
 Jordan & Honeywell *f*
 Peck Chas. J. *f*
 Putnam J. E. *f*
 See & Wells *f*
 Wight & Wight *f*
 York F. C. *f*

SCRANTON

Sheldon J. M. *f*

SEDAN

Bradley & Richardson *f*
 Bryan W. H. *f*
 Clark F. *f*
 Lewis J. E. *f*
 McPherson L. G. B. *f*
 Stallard O. D. *f*

SENECA

Acker D. W. *f*
 Benedict & Gleason *f*
 Bergen F. G. *f*
 Breeding J. L. *f*
 Campbell J. T. *f*
 Erhardt G. G. *f*
 Harrison W. P. *f*
 Herold A. P. *f*
 Meyers E. *f*
 Scoville C. C. K. *f*
 Stillwell J. E. *f*
 Stowell John *f*
 Walters I. H. *f*
 Wells & Wells *f*
 Wheatley A. C. *f*

KANSAS—Con.**SOLOMON CITY**

Burnett E. B. *f l s*
Carter F. I. *f*
Whitley H. *f*

STERLING

Evans J. S. *f*
Goodson F. L. *f*
Green F. P. *f*
Johnston J. C. *f*
Millard H. L.
Lindsay Burt

STOCKTON

Brobst J. R. *f l s*
Chipman Bros. *f l s*
Farr Geo. O. *f*
Hawkes S. N. *f*
Hill F. P. *f*
Kerr I. H. *f*

TOPEKA

Abernathy W. M. *f*
Anderson E. H. *f*
Bailey L. C. *f*
Bischoff Oscar
Devendorf & Van Valken-
burgh *f l a*
Eastman W. H. *f*
Elliott C. S. *f m*
Forbes W. M. *f*
Gavitt W. W. *f*
Gillett & Chaney *f*
Goling J. W. *f*
Gore Chas. J. *f*
Groll & McKittrick *f*
Halsted J. E. *f*

Griffin James F. *f*
Handy W. J. *f*
Higgins L. L. *f*
Horner W. *f m*
Lord John E. *f*
Lockart I. T. *f*
McKinney H. E. *f*
Mileham John
Myers C. D.
Myers Jno. A. *f l a*
Nellis & McCune *f l a s s*
Norton Milo *f*
Polindexter E. W. *f*
Pamore John W. *f*
Payne & Thompson
Parkins & Wentworth *f a*
Piety A. H. *f*
Rodgers, Bailey & Co. *f s*
Saw Isaac B. *f*
Thomas Frank S. *f*
Todd J. H. *f*
Wadsworth Wm. *f*
Yates G. W. W. *f*

WAMEGO

Brown & Embley *f l p g s h*
Chilcott R. M. *f*
Pierson B. A. *f s*
Thomson O. G. *a*
Trout & Leach *f*

WASHINGTON

Allibone J. W. *f*
Denman C. B. *f*
Diffenbaugh H. J. *f p g*
Powell Omar *f*
Ross G. E. *f*

WAVERLY

First & Williams *f*
Mathis J. F. *f*
Neil C. O. *f*
Senior J. L. *f l*

WEIR

Herron J. W. *f*
Herron & Compton *f*

WELLINGTON

Black & Murrell *f l p g*
Gambrell C. A. *f l s*
Gilmore F. H. *f p g*
McDavitt J. N. *f l a s p g s b*
Richardson A. A. *f*
Robbins F. K. *f*
Scandrett J. A. *f*
Showalter & Millard *f s*
Staffelbach W. H. *f s*

WICHITA

Allen A. E. *f*
Aley J. H. *f*
Caldwell C. S. *f*
Clement & Thomas *f*
Craig Frank H. *f*
Graves Walter H. *f*
Healey & Dewey *f*
Hoadley C. C. *f*
Huttman W. E. *f*
Johantgen J. F. *a*
Knapp J. M. *f*
Ludburn & Quinsey *f*
Lulling C. H. *f*
McKinnon D. C. *f*

Nash W. T. *l a*
Neiderlander N. F. *f*
Pierce W. S. *l a*
Rogers T. J. & Co. *f l a*
Skinner E. N. *f*
Stienbuechel H. & Bro. *f*
Viele & Sheppard *f*
Wollard & Niederlander *f*

WINFIELD

Allbright P. H. & Co. *f*
Bedilion E. *f*
Blackman & Corwin *f l*
Denning & Johnson *f*
Fuller H. G. & Son *f*
Hott O. A. *f*
Jarvis & Conklin *f*
Johnson F. C. *f*
Kennedy W. J. *f*
Lorton James *f*
Shiver Hopkins *f*
Smith S. C. *f*
Stafford & Albright *f*
Wadsworth & Co. *f*
Wortman M. *f*
Yeager & Johnson *f*

YATES CENTRE

Browning E. T. *f*
Hogueland S. H. *f l*
Jones I. S. *f*
Plummer Thomas W. *f l t*
Rollins H. C. *f*
Sharp & Holmes *f*
Stecher J. H. *f a*
Winter H. H. *f*

KENTUCKY.**ADAIRVILLE**

Copeland J. M. *f l a*
Holeman George H. *f*

ASHLAND

Bruning F. H. *f*
Lon Davis *f a*
Hagar S. P. *f l m a p g t*
Poage Wm. *f*
Steel D. W. Jr. *f c s*
Weis D. K. *f*

AUBURN

Clark E. G. Jr. *f*
Davidson G. W. *f l*
McCormick H. P. *f l*

AUGUSTA

Argers A. *f t*
Armstrong T. H. *f*
Boude J. H. *f*
Grey J. C. *f*
Kautz Jacob *l a*
Kuorden L. P. *f*
Reese J. P. *f*

BARDSTOWN

Atkinson C. T. *a*
Cotton Jas. W. *f*
Gray & Daugherty *f*
Mattingly A. J. *f*
Wilson Eugene & Co. *f l t*

BEDFORD

Bell D. L. *f*
Logan W. R. *a f*
Morgan W. C. *f*

BEREA

Chaney J. W. *f l*
Dodge P. D. *f*
Fish E. T. *f*

BERRY

Matthews, G. C. *f*
Renaker W. P. *f*
Slade R. L. *f l*

BLOOMFIELD

Durrett J. R. *f t*
Huston J. W. *f*
Terrell John Allan *f t c a*

BOWLING GREEN

Carpenter J. F. & Son *f*
Clark & Thomas *f t*
Cooke W. A. & Son *f l p g l s t*
Coombs E. H. *f s*
Hill P. J. *f*
Norval John *f*
Pollard & Sullivan *f t p g*
Smith Joe D. *f l a*
Turpin John *l a*

BRANDENBURG

Casperke George H. *f l t a*
Mahan J. W. *l a s p g c s b t*
Mahan & Trent *f*

CALHOUN

Higdon R. G. *f t*
Moseley A. L. *f l*
Tanner T. P. *f l t*

CAMPBELLVILLE

Wright C. W. *f a l*

CARLISLE

Darnall & Colliver *f*
Hillock Jas. *f*
Kennedy H. *f*
Henry W. F. *f*
Ross & Howe *f*

CARROLLTON

Fisher W. R. *f l a p g*
Gaust & Downs *f a c p g*
Smith & Giltner *f l a*
Winslow & Gaslee *f*

CATLETTSBURG

Everett & Hogan *f a m l*
Mason & Andrews *f a m l*
Wellmann Guff *f l t a*

CENTRAL CITY

Hill J. S. *f*
Ward M. L. *l a*

CLINTON

Carter J. W. *f*
Ramsey A. W. *f t*

CLOVERPORT

Allen W. O. *a c*
Newson R. L. *f*

Skillman Chas. B. & O. T. *f*
Skillman O. T. *a*
Vest Wm. & Sons *f*

COLUMBUS

Gest W. A. *f*
Gregory Jas. L. *f*
Jackson J. M. *f*
Richardson Ed T. *f*
Walker C. N. *f l*

COVINGTON

Abbott G. M. *a*
Adams Ben *f*
Argus George *f*
Bailey H. B. *f*
Bruchl R. A. W. & Son *f*
Burgie & Rice *f*
Coker Geo. *f*
Cooper J. R. *f*
Mosher W. W. *f*
Moss U. F. *f*
Sandford & Hall *f*
Saver E. B. *f*
Shawhan Bradley *f*
Simrall A. G. & Co. *f p g c*
Sprague E. *f*
Van Buren G. M. *f*
Walker Rudolph *f*
Whitney John & Co. *f*
Wiggins & Walker *f*
Wood J. H. & Bro. *f*

CYNTIANA

Hood T. H. *f*
Lacy J. W. & Co. *f l p g t*
Land C. G. *f*
Le Bus Oris *f*
Long J. S. *f*
Montgomery John G. *f l*
Sprake F. G. *f*
Thomson W. A. *f*
Thornton T. T. *f*
Walden G. N. & Co. *f*

DANVILLE

Cheek & Quisenberry *f l*
Engleman J. H. *f*
Gray L. M. *f l*
Heron & Briggs *a*
Holmes A. R. *f*
Lee F. N. *a*
Proctor J. W. & Son *f*

Rowland E. S. *f*
Rowland D. P. Jr. *f*
Rowland S. V. & Son *f*
Welsh G. W. Jr. *f l*

DAYTON

Breitenstine Theo. *f*
Elwood Waistell *f*
Horsler John M. Jr. *f*
Kaighen G. T. *f*
Keller Harry *f*
Metre George *f*
Pook Charles *f*
Rackers Jos. *f*
Reed Arthur J. *f*
Scheffeld Albert *f*
Schreiber D. E. *f t p g*
Vashe Henry *f*
Ulrich Adolph *f*
Wessling Ed C. *f*

DIXON

Bourland W. E. *f*
Herron Hiram T. *f*
Hill John D. *f*

DOVER

Curran A. F. *f*
Moore T. F. *f l t*

EARLINGTON

Atkinson Geo. C. *f*
Chattin E. A. *f*
Moore Paul M. *f l t a*

EDDYVILLE

Malloy T. H. *f*

ELIZABETHTOWN

Bush S. H. *f t*
Jenkins J. P. *f l t*
Kinkadee S. *f l t a*
Phillips R. G. *f*
Rihn Chas. I. *f l a*

ELKTON

Perkins & Weathers *f*
Street Geo. F. *f l*
Street John O. *f l*

EMINENCE

Berry J. M. *f t*
Crabb W. L. *f*
Haymaker J. W. *f*
McCorkle W. P. *f*
Moody E. R. *f l t*
Patterson Jas. H. *f l t*

FALMOUTH Applegate L. A. <i>l</i> Colvin J. B. <i>f</i> Dudley R. H. <i>f</i> Frazier Bros. <i>f</i> Oldham J. L. <i>f</i> Wilcoxson Q. D. <i>l f</i>	GREENVILLE Brizendine J. H. <i>a</i> Coleman O. B. <i>a</i> Hay & Reno <i>f</i> Morgan W. T. <i>l</i> Tinsley T. J. <i>f</i> Younts E. L. <i>l</i>	HUSTONVILLE Hocker J. W. <i>f</i> Johnston D. S. <i>f</i>	LITCHFIELD Dent S. R. <i>l</i> Goswell Jess T. <i>f l a s b t</i> Stone G. W. <i>l</i>
FLEMINGSBURG Andrews Harry <i>f</i> Andrews Miss Mary T. <i>f</i> Andrews Thos. S. <i>f l</i> Andrews W. <i>l a</i> Elgin J. W. <i>l a</i> Heflin John <i>l</i> January A. M. <i>f</i> Lawson J. S. <i>f l a</i> Power J. S. <i>f l p g</i> Singleton E. L. <i>f l</i>	HARRODSBURGH Bohon Geo. <i>f</i> Corn W. T. <i>l</i> Haydon E. W. <i>l</i> Linney J. M. <i>f</i> Moberly John M. <i>f</i> Richenburg G. W. <i>l</i> Rose Marion <i>l</i> Rue & Curry <i>f l a p g l s t</i> Wilson Ed <i>f</i> Witherspoon J. A. <i>f</i>	KUTTAWA Malloy S. C. <i>l a</i>	LOUISA Gray G. B. <i>a</i> Snyder Bros. <i>f</i> Wallace F. T. D. <i>f</i>
FRANKFORT Boll S. C. <i>l</i> Exum F. C. <i>f p g</i> Hensley Clark & Co. <i>f l a s b</i> Lindsey John B. <i>f</i> Marshall & Co. L. B. <i>f l</i> Payne & Berry <i>f l a s b p g</i> Rodman G. R. & Co. <i>f l</i> Swigert Jacob & Co. <i>f l</i>	HARTFORD Barrett John P. <i>f l</i> McHenry H. D. & Son <i>f l</i> Miller J. T. <i>a</i> Sanderfur J. P. <i>f</i>	LA GRANGE Clark J. R. <i>f</i> Duerson W. K. <i>f l a s b t c</i> Head P. S. <i>f</i> McDowell W. A. <i>f</i> Risley I. T. <i>f l</i> Sauer Joseph <i>f</i> Yager J. W. <i>l</i>	LOUISVILLE Adams J. L. <i>l</i> Ashby, Hyrno & Co. <i>f</i> Fire Ins., 858 W. Main st Barbee & Castleman <i>f</i> Barrett John J. <i>f</i> Bayley J. W. E. & Co. <i>f</i> Bellstein J. W. & Co. <i>f</i> Fire Insurance. Berkeley E. F. Jr. <i>l</i> Brewer, Simm & Co. <i>f</i> Brodie F. G. <i>f</i> Bullitt Bros. <i>f</i> Callahan & Watts <i>l</i> Caldwell W. S. <i>f</i> Carpenter James S. <i>l</i> Casseday Morton N. <i>l</i> Clarke Davis <i>l</i>
FRANKLIN Beall Wm. <i>f l</i> Bradshaw Sam H. <i>l</i> Harwell A. W. <i>f</i> MacGill T. W. <i>f l a</i> MacGill W. H. <i>l</i> Mitchell H. K. <i>f l</i>	HAWESVILLE Chambers F. N. <i>l</i> Hancock Deposit Bank <i>f l</i> Hennen Mrs. M. <i>f</i> Jackson J. H. <i>f l a</i> McAdams E. P. <i>l</i> Powers S. <i>f</i> Sterrett C. G. <i>f l</i>	LANCASTER Collier D. R. <i>l</i> Denny & Robinson <i>f a</i> Hudson & Whinett <i>f</i> Hughes M. D. <i>l</i> Kinnaird & Farra <i>f l a s b t p g</i>	LEBANON Kelly J. A. <i>f</i> Rubel W. R. <i>f l p g a c s b t</i> Thompson Richard <i>f l a c</i> Wathers & Bradshaw <i>f l a</i> <i>p g t c</i>
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LONDON ASSURANCE CORPORATION, of London.	1720	18,706,000
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Thayer A. J. *f*

EASTHAMPTON

Baldwin L. N. *f*
Barron Miss E. E. *f*
Koenig Emil C. *f*

EASTON

Field C. R. *f*
Gilmore E. A. *f*
Hayward E. B. *f*
Reed Charles H. *f*

EAST PEPPERELL

Annis W. H. & Co. *f*

EVERETT

Atwood H. G. *fla*
Blake P. T. *f*
Cannell Bros. *f*
Gleason F. L. *f*
Henderson John D. *f*
Jennings C. E. *f*
Saunders C. O. *f*
Warren C. E. *fl*

FAIRHAVEN

Buffington Miss N. H. *f*
Jenney Miss Addie *f*
Taber R. H. *f*

FALL RIVER

Anthony Arthur *fgca*
Cook Charles C. *fla*
Duffee & Chace *mc*
Frank Allen C. *la*
Greene Wm. S. *fg*
Haffards G. M. & Co. *fc*
Hall James L. *flma*
Hood A. H. *fm*
Howland W. *fla*
McLane Fred *fl*
Mills & Harrison *f*
Murphy E. F. *flsa*
Shepherd J. M. Jr. *flas*
Slade John P. & Son *flmsb*
Slinn John *fl*
Vestal T. R. *fl*

FALMOUTH

Burgess C. S. *flsa*
Clark George E. *f*
Jones G. W. *f*
Winslow J. D. *f*

FITCHBURG

Allison & Flanders *f*
Baker Wm. *f*
Batchelder C. A. *f*
Currier F. C. & Son *fl*
Jones Robert M. *f*
Kirby C. E. *f*
Mason Charles *f*
Plimpton M. F. *fl*
Putney W. E. *f*
Upham N. C. *fl*
Upton & Willis *f*
Wellington & Potter *f*

FLORENCE

Baker Geo. N. *flapg*

FOXBOROUGH

Carpenter John T. *f*
Carpenter L. E. *f*
Hodges C. W. & Son *fa*

FRAMINGHAM, SO.

Adams C. S. & Co. *f*
Clark W. E. & Son *fam*
pgsb
Davenport S. G. *f*
Esty Fred M. *f*
Farnsworth Chas. *f*
Hudson Elmer *f*
Judd Burris *f*
Lombard John B. *f*
Tucker A. H. *f*

FRANKLIN

Bassett O. M. *la*
Bullock H. M. *f*
Freeman James M. *f*
Jenks H. R. *f*
Ruggles H. E. *f*
Stewart Charles W. *f*
Whittaker L. R. *f*

GARDNER

Chapin W. S. *fla*
Edgell Chas. N. *fg*
Richardson Chas. F. *flapg*
lsbs

GEORGETOWN

Bridges David N. *f*
Hatfield Rev. B. U. *f*
Jewitt C. E. *f*

GLOUCESTER

Fears Robert R. *f*
Follansbee H. L. *flamfg*
Haskell H. C. L. *f*
Presson D. S. *f*
Stacey S. A. & Son *flapg*
Steele Geo. & Co. *fgmfg*
Story Cyrus *flfg*

GRAFTON

Fiske David L. *atfls*
Howe & Dodge *fla*

QT. BARRINGTON

Briggs Frank H. *fla*
Joyner H. C. *f*
Sanford & Taylor *f*
Wheeler John C. *f*
Wright Frank H. *flfga*

GREENFIELD

Bouker John D. *f*
Gleason Albert M. *f*
Keith C. H. *f*
Lawler Nicholas *f*
Shepard E. S. *la*
Simonds H. K. *f*
Snow Erank H. *f*
Spring John F. & Co. *fla*
Ulrich F. H. *f*
Washburn W. N. *f*
Williams Gorham D. *fl*
Williams W. S. *f*

HANOVER

Dwelle Jedediah *fl*

HARWICH

Rogers Sullivan W. *f*
Small Samuel *fm*
Weekes A. L. *f*

HAVERHILL

Adams J. Fred *flapg*
Briggs E. H. *la*
Frankle Jones *fl*
Goodell & Palfrey *fg*
Gould Ralph *f*
Kerrigan A. P. *fl*
Page W. H. *flapgc*
Quinby T. W. *la*
Smith J. F. *f*
Spaulding L. V. & Co. *fc*
a pg
Tilton A. M. *fl*
Turner Geo. C. *f*
Vittum W. S. *fl*
Wild John *f*

HINGHAM

Corthell J. K. *fm*
Crosby Sam'l T. *f*
Cushing Alonzo *f*
Foster Walter B. *fl*
Lincoln F. H. *f*
Loring E. B. *f*
Seymour C. W. S. *f*

HOLBROOK

Holbrook A. C. *f*
Lincoln Chas. W. *f*
Underhay John *f*
White Walter E. *f*

HOLDEN

Bascom W. H. *f*
Merrick E. W. *f*

HOLLISTON

Coughlin J. H. & H. J. *fl*
Fiske G. B. *flasb*
Fiske J. F. *f*
Thayer C. F. *f*

HOLYOKE

Caase & Winkler *fl*
Caase & Craig Life Insurance
Chamberlain F. H. *flapg*
Clarke E. C. *f*
Crafts H. A. *fl*
Donaldson H. B. *f*
Doyle The Jas. Co. *f*
Engle W. M. *fls*
Estes E. M. *f*
Johnson R. B. & Son *fla*
pgsc
Judd & Parsons *flapgc*
Judd Dwight O. *flapg*
Lynch J. K. *f*
Magna A. G. *fl*
O'Connell Jas. H. *fla*
Tolman C. T. *f*
Wolcott C. B. *fla*
Wood Mark *fl*

HOPKINTON

Hemenway Geo. L. *f*
Morrill F. A. *f*
Whittemore Mrs. E. D. *f*
Woodbury A. H. *f*
Wood Fred A. *f*

HUDSON

Hill Chas. H. *f*
Joslin James T. *f*
Stratton Daniel W. *fla*
Welsh Josiah S. *f*

HYANNIS

Bacon Mrs. C. *f*
Hall J. T. *flm*
Hallet G. W. *f*
Thacher Frank *f*
Thacher Eben A. *fa*

HYDE PARK

Beebe R. O. *f*
Brown I. J. *fl*
Buntion H. S. *f*
Farwell E. C. *f*
Faunce Thos. E. *f*
Hathaway E. S. *f*
Kollock Wm. B. *f*
Norris W. H. & Son *fght*
Osborne S. L. *f*
Stocking Geo. L. *f*
Terry Henry B. *f*

IPSWICH

Brown Edward F. *f*
Cogswell Theo. *f*
Wait N. R. *f*

LANCASTER

Merrick S. R. *f*

LAWRENCE

Bevington Thomas *fl*
Bradley Chas. E. *f*
Corcoran C. J. *f*
Fay A. M. *f*
Mack A. E. *f*
Murphy James *fl*
Norwood John K. *falpg*
sb
O'Sullivan J. T. *fl*
Parker J. O. *f*
Pippig & Mathes *f*
Rowe Walter R. *f*
Stannard James H. *f*
Wheelock, Rufus & C. *f*

MASS.—Con.**LEE**Chaffee J. C. *fl*Pease M. H. *fl a***LEOMINSTER**Carter C. W. *fl*Gates J. W. *fl*Lockey J. M. & Co. *fl*Metcalf N. E. *fl*Tyler J. J. & J. G. *fl***LExINGTON**Saville Leonard A. *fl*West Charles T. *fl***LOWELL**Abbott Edward T. *fl a s*Carr C. G. *fl a s*Church H. C. & Son *fl c pg*Coburn Charles *fl pg*Coburn & Sherman *fl a pg sb*Dickey Thomas L. *fl s*Dixon James M. *fl*Dodge W. E. *fl*Dudley D. E. *fl s*Eaton Chas. W. *fl*Haggett F. P. *fl*Kilgore J. M. *fl*Lee Thos. C. *fl*Mansur E. E. *fl*Marren Jas. *fl*Merrill Frank M. *fl*Metcalf Geo. E. *fl*Norcross N. W. & Co. *fl*Trueworthy J. B. *fl*Tucke E. M. *fl*Wallace Daniel R. *fl*Walker Daniel *fl***LYNN**Breed Geo. W. *fl*Burrill & Porter *fl*Chadwell & Porter *fl*Culliton John *fl*Dalton & Lent *fl*Frizzel Frank H. *fl pg*Green H. H. *fl*Hall & Newhall *fl*Jenkins Geo. *fl*Jerome, Ingalls & Co. *fl*Knight Thos. B. *fl pg*Lewis & Newhall *fl pg t*McAndrews John J. *fl*Madden John H. *fl*Mudge Frank N. *fl*Newhall Atkins & Shaw *fl*Newhall Israel A. *fl a*Newhall Geo. H. *fl*Newhall Loranus C. *fl*Newhall Wesley I. *fl*Phelps Jas. F. *fl*Pitman Benj. *fl*Pool W. D. *fl a*Porter Thos. F. *fl pg a*Silabee, Baker & Geer *fl pg*Silabee Jas. B. *fl*Spear Geo. R. *fl*Thompson Waldo & Son *fl a*Trexler S. Clarence *fl*Ward Benjamin A. *fl***MALDEN**Allen J. W. *fl*Ball L. O. *fl*Chase J. F. *fl*Dennett Chas. E. *fl*Heath N. H. *fl*Holden I. P. *fl*Howard C. W. *fl a pg c*Nowman A. S. *fl*Prescott C. R. *fl*Sabine E. D. *fl*Serrat W. D. *fl*Shedd C. H. *fl*Willard F. J. *fl*Williams G. W. *fl***MANCHAQU**Holt John *fl***MANCHESTER**Johnson W. J. *fl m*Rabardy Julius F. *fl***MANSFIELD**Day A. B. & Co. *fl*Pekins David H. *fl*Reed E. M. *fl*Shepard S. W. *fl***MARBLEHEAD**Hathaway D. R. & Son *fl*Pitman E. A. *fl*Trefay Wm. D. T. *fl***MARLBOROUGH**Barnes Wm. *fl a*Brigham W. M. *fl*Burke Thos. S. *fl*Child J. Frank *fl a*Clasdin F. L. *fl*Dalton John *fl a s pg sb*Farnsworth C. E. *fl*Fay Heman S. *fl*Holyoke Chas. F. *fl a s pg c*Johnson E. F. *fl*Murphy James T. *fl*Russell C. B. *fl*Warren W. M. *fl***MEDFORD**Buss C. B. *fl*Clark J. C. *fl*Goodwin J. O. *fl*Gibson R. *fl*Green Geo. W. *fl*Keene G. M. *fl*Kent Fred A. *fl*Ober Joseph E. *fl*Rolfe J. A. *fl*Stetson Geo. W. *fl***MEDWAY**Fisher F. L. *fl*Snow James A. *fl a l s***MELROSE**Burrell & Swett *fl*Eastman M. F. *fl*Farnsworth Geo. W. *fl*Goss E. H. *fl*Hanaford J. L. *fl*Larrabee John *fl*Leighton Royal B. *fl*Leonard H. A. *fl*Lovejey S. A. *fl*McCoy Geo. M. *fl*Selee N. P. *fl*Stevens Walter C. *fl*Westgate & Johnson *fl***MELROSE HIGH-
LANDS.**Kilgore R. D. *fl*Nowell & Batchelder *fl***MERRIMAC**Knight James M. *fl*Poore D. J. *fl*Sargent Bailey *fl***METHUEN**Clark Aaron H. *fl*Parker James O. *fl***MIDDLEBOROUGH**Alden J. F. *fl*Collins T. C. *fl pg a t*Harlow F. A. *fl a*Hathaway C. L. *fl*Keith Percy W. *fl*Robinson E. *fl*Ryder I. M. *fl*Sullivan D. D. *fl***MILFORD**Holbrook L. *fl*Hayden Lewis *fl*Jenkins A. A. *fl a l s*Mann F. E. *fl*McLaughlin J. T. *fl a*Townsend H. E. *fl***MILLBURY**Goddard Ira N. *fl*Hurley John F. *fl***MILTON**Breck C. E. C. *fl*Clary T. F. *fl*Pond R. L. *fl*Pope H. Arnold *fl*Willis S. J. *fl*Wood Wm. *fl***MONSON**Morris & Farrington *fl a***MONTAQUE**Chenery Isaac *fl***NANTUCKET**Barney M. *fl*Brock Albert G. *fl a*Crowley C. H. *fl*Folger David *fl*Moore G. E. *fl***NATICK**Blaney Alexander *fl*Burleigh O. H. *fl*Farwell R. E. & Son *fl sb c a*Forbush Jas. M. & Co. *fl a*

m pg c

NEEDHAMEaton Geo. E. *fl*Greenwood C. C. *fl*Tisdale Geo. W. & Son *fl a***NEW BEDFORD**Alden Geo. N. *fl a h t pg*Brock Jethro C. *fl*Cook Samuel H. & Co. *fl m*

pg sb

Cornish I. S. & Son *fl a pg*

h t

Grinnell L. & Co. *fl m pg*

h t

Hoye James F. *fl a*James Thomas M. & Co. *fl a*McKowen E. F. *fl*Nicholson John G. *fl*Priestly George *fl*Rotch & Potter *fl m*Van Campen H. & Co. *fl a*

pg

York George A. *fl pg***NEWBURYPORT**Brewster Bros. *fl m*Chase & Lunt *fl a pg sb t c s*Dame Luther *fl*Howard E. A. *fl*Humphreys W. T. *fl*Reddy Anthony *fl*Smart Milton E. *fl a m s t***NEWTON**Barbour & Hatch *fl*Barnes E. F. *fl*Bennett R. *fl*Edmunds Wiley S. *fl*Fuller J. C. *fl*Holman E. *fl*Hyde F. C. *fl*Murdock F. *fl*O'Connor F. A. *fl*Robinson J. H. *fl*Rogers C. F. *fl*Safford Henry G. *fl*Tainter & Ballantyne *fl*Trowbridge A. & Co. *fl*Young Wm. B. *fl***NEWTONVILLE**Fuller J. Cheever *fl pg*Row Richard *fl a m pg sb***NORTH ADAMS**Cleggorn Andrew *fl*Ford M. R. & C. W. *fl*French George *fl*Gallup C. W. & H. A. *fl a*

pg c

Hamer George *fl*Lynch Thomas D. *fl*Lyons H. S. *fl*

Miller George F. Fire

Ins.

Ransford Frank *fl*Tinker G. K. *fl***NORTHAMPTON**Arnold J. W. *fl*Garrity T. H. *fl*Hill & Wainwright *fl a s*

pg c

Kellogg J. M. *fl a t*Nutting A. F. *fl pg*Herbert Jos. *fl*Pierce C. H. *fl a c*Turner J. M. *fl a*Twist J. B. *fl*Walker Oliver *fl a pg***NO. ATTLEBORO**Albro J. G. *fl*Mendell L. F. *fl a*Parker A. T. *fl a***NO. BROOKFIELD**Buck George P. *fl a s*De Land L. P. *fl a*King Howard G. *fl*Smith Frank A. *fl m a s k*

sb t

NO. EASTONCoggan R. H. *fl a***NORWOOD**Clary Thos. E. *fl a*Gay Geo. W. *fl***ORANGE**Bemont J. R. R. *fl*Chase Chas. F. *fl*Kimball James D. *fl a*Morrill William B. *fl*Newton Israel *fl a*Stone D. & Son *fl***OXFORD**Barton S. R. *fl*Willis S. C. *fl***PALMER**Fitch A. E. *fl a*Hellyar S. H. *fl a pg c*Kenebeck T. W. *fl*Leach W. W. *fl*Taft S. S. *fl***PEABODY**Chadwick (J. B. & Co. *fl a*

QUINCY

Brown Geo. H. & Co. *f a g*
 Chase R. D. *f*
 Dinegan J. H. *f*
 Field Geo. H. *f*
 Hardwick John & Co. *f*
 Howland Chas. A. *f*
 Howland Edward P. *f*
 Morton Geo. W. *f*
 Olney A. G. *f*
 Porter Charles H. *f*
 Webb James H. *f*

RANDOLPH

Belcher J. White *f*
 Hathaway Chas. G. *f*
 Mann Seth 2d *f*
 Wales Geo. W. *f*

READING

Bancroft Lewis M. *f*
 Bosson Harry P. *f*
 Brooks & Pratt *f*
 Lang Wm. A. *f*
 Pratt Geo. L. *f*
 Wightman Wm. H. *f*

REVERE

Hall Wm. E. *f*
 Murry & Better *f*
 Stowers & Farnsworth *f*

ROCKPORT

Appleton Zeno A. *f*
 Cleaves C. H. *f*

SALEM

Batchelder A. W. *f*
 Colby & Jones *f*
 Dalton J. Frank *f*
 Daniels George P. *f*
 Fogg J. A. *f*
 Forniss A. A. *f*
 Hill Wm. M. *f*
 Johnson Thomas H. *f*
 Kendall W. H. *f*
 Nevins & Tibbetts *f*
 Nichols Chas. S. & Co. *f*
 Northey William & Co. *f*
 Odell Charles H. *f*
 Russell Benj. W. *f*
 Smith, Leavitt & Cole *f*
 Tierney P. F. *f*
 Valentine Elmer *f*

SANDWICH

Chipman Geo. N. *f*
 Haines Eugene W. *f*

SCITUATE

Ainslie J. R. *f*
 Bailey Frederic T. *f*
 Bates D. J. *f*
 Coleman Moses B. *f*
 Richardson W. P. *f*
 Tilden Thomas *f*
 Wade Jetson *f*

SHEFFIELD

Cowles Mrs. M. E. *f*
 Raraback Jas. *f*
 Raraback M. *f*
 Wickwire T. C. *f*

SHELburne FALLS

Field R. W. *f*
 Hanks C. W. *f*
 Hoyt Gustavus *f*
 Puffer H. M. *f*

SOMERSET

Hood W. P. *f*
 Hood W. P. & Son *f*

SOMERVILLE

Bridham Moses B. *f*
 Colson H. W. F. *f*
 Currier S. E. *f*
 Davis & Briggs *f*
 Fah W. W. *f*
 Flynn W. H. *f*
 Giles Jos. J. *f*

Knowles W. F. *f*
 Lapham F. DeWitt *f*
 Libby H. & Son *f*
 Libby S. H. *f*
 Morgan E. B. *f*
 Muzzey Wm. A. *f*
 Perry O. H. & Co. *f*
 Pillsbury L. B. *f*
 Robertson C. S. *f*

SOUTHBRIDGE

Litchfield J. F. B. *f*
 Phillips E. M. & Son *f*
 Wetherby C. B. *f*

SPENCER

Craig Geo. A. & Co. *f*
 Howland E. Harris *f*
 Stone Emerson *f*

SPRINGFIELD

Anslow John *f*
 Childs A. P. *f*
 Clark J. G. *f*
 Clune J. H. *f*
 Cowles O. L. *f*
 Craig S. W. *f*
 Crossman H. S. *f*
 Fay S. E. *f*
 Fuller W. A. & Co. *f*
 Gilmore H. G. *f*
 Hinkley Fred L. *f*
 Howard H. C. *f*
 Johnson J. L. *f*
 Judd F. A. & Co. *f*
 Ladd Bros. & Co. *f*
 Parker F. C. *f*
 Pynchon & Stickney *f*
 Quirk J. P. *f*
 Ranshouzen J. C. *f*
 Sherwood S. D. *f*
 Simons H. K. *f*
 Sutton G. H. *f*
 Waite L. R. *f*
 Warriner S. C. *f*
 Williams N. H. *f*
 Wright Fred C. *f*
 Young F. R. *f*

STOCKBRIDGE

Evans C. E. *f*
 Fenn D. B. *f*
 Flynn M. *f*
 Perry C. W. *f*

STONEHAM

Gilmore Onslow *f*
 Green George N. *f*
 Jones James A. *f*
 Kimball J. D. *f*
 Smith H. A. *f*
 Stockwell J. A. *f*

STOUGHTON

Britton Ellis F. *f*
 Britton Henry W. *f*
 Paul Abram C. *f*
 Talbot Jabez *f*
 Tucker Horace N. *f*
 Wentworth Geo. O. *f*

SUTTON

Batcheller H. C. *f*

SWAMPSCOTT

Stimpson D. P. *f*
 Thompson Waldo & Son *f*

TAUNTON

Couch L. C. *f*
 Hammond J. C. *f*
 Hodges A. B. & Co. *f*
 Jackson E. T. & Co. *f*
 Leonard M. B. *f*
 Mitchell D. L. *f*
 Ryder A. G. *f*
 Sproat Alfred B. *f*
 Tallmann J. R. *f*

TURNER'S FALLS

Atherton R. L. *f*
 Collins M. B. *f*
 Dana W. S. *f*
 Darling I. A. *f*
 Gilmore W. H. P. *f*
 Smith A. R. *f*

UXBRIDGE

Greene Chas. W. *f*
 Hobbs Geo. T. *f*
 Taft Chas. A. *f*
 Taft Samuel B. *f*

WAKEFIELD

Crocker Wilbur C. & Son *f*
 Hartshorne Charles F. *f*
 Hayden Frank W. *f*
 Kimball Samuel *f*
 Mansfield Joseph D. *f*
 Scovill G. H. *f*
 Southworth P. S. *f*
 Thayer & Norton *f*

WALPOLE

Morey Geo. P. *f*

WALTHAM

Bergin Michael *f*
 Chaffin J. P. *f*
 Chessman J. Albert *f*
 Johnson Wm. H. *f*
 Robinson Jam. F. *f*
 Thompson & Reed *f*
 Tisdale Frederick C. *f*
 Viles D. F. & Co. *f*
 Walker & Beal *f*

WARE

Davis A. J. *f*
 Davis H. C. *f*
 Madcalf Wm. *f*
 Marland Noah *f*
 Storrs Bros. *f*

WAREHAM

Ryder T. M. *f*

WARREN

Hitchcock Charles *f*
 Lincoln Wm. & Co. *f*

WATERTOWN

Critchett F. E. *f*
 Farwell Wm. E. *f*
 Gleason Samuel S. *f*
 Ingraham W. H. *f*
 Kellen Wm. *f*
 Macurda Wm. A. *f*
 Monahan James D. *f*
 Tarlton George H. *f*

WEBSTER

Brown P. G. *f*
 Johnson Waldo *f*
 Lamb Liberty *f*
 Prescott J. B. & Son *f*
 Prout P. *f*

WELLESLEY

Carter & Peabody *f*
 Chesbro G. L. *f*
 Jennings Albert *f*

WESTBORO

Fairbanks John W. *f*
 Nourse B. A. *f*
 Reed Charles H. *f*

WESTFIELD

Footo Wm. H. *f*
 Fuller Henry *f*
 Lyman Herbert *f*
 Robinson R. B. *f*
 Towle O. C. *f*
 Whitney M. B. *f*

WEST GARDNER

Black R. W. *f*
 Edgell C. N. *f*
 Hillery M. C. *f*
 Richardson C. F. *f*
 Whitney H. A. *f*
 Wilson A. L. *f*

WEST NEWTON

Barbour & Hatch *f*
 Bennett Robert *f*
 Brennan J. P. & Co. *f*
 King H. F. *f*

WEYMOUTH

Ambler F. *f*
 Rickenell Z. L. *f*
 Cook L. A. *f*
 Dembroeder J. B. *f*
 Jordan A. S. & Co. *f*
 Orcutt I. R. *f*
 Tirrell H. A. *f*
 Torrey Geo. C. *f*
 Vining A. E. *f*

WHITMAN

Allen C. F. *f*
 Hersey Geo. E. *f*
 Howland & Faunce *f*
 Soule George D. *f*

WILLIAMSBURG

Hill H. W. *f*
 Purrington W. M. *f*

WILLIAMSTOWN

Smith C. M. *f*
 Tallmadge E. A. *f*

WINCHENDON

Crain R. D. *f*
 Greenwood S. A. *f*
 Merrill E. S. & Son *f*
 Whitney A. H. *f*

WINCHESTER

Kimball Daniel W. *f*
 Nourse F. H. *f*

WOBURN

Adams Charles D. *f*
 Conn Horace N. *f*
 Goddard S. B. & Son *f*
 Gregory E. J. *f*
 Hill W. W. *f*
 Horton S. *f*
 Lynch J. *f*
 Maguire & Gregory *f*
 Porter B. T. H. *f*
 Woodbury W. *f*

WORCESTER

Bailey W. A. *f*
 Barker John M. *f*
 Barton S. R. *f*
 Briggs H. S. *f*
 Chaffee A. H. *f*
 Clark P. L. *f*
 Crowell J. F. *f*
 Currier A. N. & Son *f*
 Eldred Edwin & Co. *f*
 Fire Insurance *f*
 Farrar & Gates *f*
 Field E. G. *f*
 Gage W. B. *f*
 Goddard F. H. *f*
 Grant C. E. *f*
 Harrington N. A. *f*
 Hopkins F. F. *f*
 Ingraham E. P. *f*
 Monroe A. C. *f*
 Pettigrew D. L. *f*
 Tatman R. James *f*
 Tucker C. D. *f*
 Washburn, Willis & Green *f*

WRENTHAM

Barnes Geo. F. *f*
 Carpenter J. E. *f*
 Coleman A. W. *f*

YARMOUTHPORT

Howes & Crowell *f*
 Thatcher Frank *f*

MICHIGAN.

ADRIAN

Bennett Alanson *f*
Cochrane Geo. *f*
Cole H. M. *f*
Gilkey J. R. *f*
Hart H. V. C. *f*
Helme J. W. Jr. *f*
Hough F. J. *f*
Knapp F. H. *f*
Loomis Heman *f*
Meyer Charles *f*
Michael Joseph *f*
Miller C. R. *f*
Smith E. H. *f*
Wagner Louis A. *f*

ALBION

Banks J. O. *f*
Bidwell Wellington *f*
Crittenden H. W. *f*
Davis O. L. *f*
Dearing H. M. & P. M. *f*
Dearing & Leonard *f*
Ealow J. C. *f*
Gregory A. W. C. *f*
Hall D. R. *f*
McCutcheon A. L. *f*
Mosher H. W. *f*
Peabody O. H. T. *f*
Warren L. S. *f*
Weeks M. D. *f*

ALLEGAN

Marsh H. F. *f*
Stanley H. E. *f*

ALMA

Bahlke W. A. *f*
Gee L. *f*
Lemen R. D. *f*

ALPENA

Biggs Chas. H. *a*
Chenev Chas. E. & Co. *f a c*
Kelley & McDonald *f a m*
Luce & Hitchcock *f m*
Paterson & Small *f a*

ANN ARBOR

Bach James R. *f*
Bennett John *f*
Hamilton A. W. *f l s b*
King Zina P. *f*
Mack C. *f*
Oesterlin E. *f*
Pistorius Fred *f*
Pond E. B. *f g t s b*
Sessions J. Q. A. *f*
Whedon W. W. *f l a*

AU SABLE

Elliott H. M. & G. W. *f*
Henry & Cornville *f*
Hill Granger *f*

BATTLE CREEK

Bartlett C. E. *f*
Beach M. G. *f*
Eaves E. E. *f*
Forsythe & Clark *f s*
Hayward J. L. *f*
Hubbard H. H. *f l a*
Johnson H. J. *f*
Lyman C. E. *f l a p g s b*
Palmer C. A. *f*
Palmer Loren *f*
Robinson Chas. *f*
Simons Carrie C. *f*
Wakelee Chas. M. *f*
Winslow E. R. *f*

BAY CITY

Carney R. G. *f l*
Corwin James B. *f l a*
Drake John *f l p g*
Ernst Frank *f*
Forsyth O. F. *f l*
Goeschell L. *f*
Hood Geo. F. *f*
Knaggs & Plum *f l a p g s b*
Raymond Henry S. *f*
Scheurmann Chas. *f*

Shannon D. *f a*
Spear F. B. *f p g*
Stewart A. L. *f*
Vanduye E. & Co. *f a*
Wands F. L. *f l*
Washington Geo. *f*

BENTON HARBOR

Crago I. T. *f*
Elbridge, Bassett & Co. *f a*
Evans S. J. *f*
Fifield O. S. *f c*
Hicks W. C. *f*
Hitchcock W. M. *f l a*
Hogue W. L. *f*
Kennedy & Foreman *f*
Kennedy N. G. & Son *f*
Morrison D. C. *f*
Oden J. R. *f*
Plummer Alonzo *f*
Prescott Mr. *f a*
Rounds B. F. *f*
Schringer J. D. *f l*
Vandevort & Co. *f*

BESSEMER

Bayliss Edwin *f l a p g l s c t*
Howell Chas. M. *f*

BIG RAPIDS

Bennett A. W. *f*
Burtch H. F. *f a p g*
Fuller C. C. *f*
Sumner A. B. *f*
Thrall C. H. *f*
Throp & Gaylord *f l s*

BLISSFIELD

Bliss I. W. *f*
Carpenter Mrs. E. S. *f*
Kurtz Wm. H. *f t*
Riley J. A. *f*

BUCHANAN

Alexander L. P. *f*
Dick John C. *f*
Palmer W. A. *f l l s p g a h*
Stryker F. A. *f*

CADILLAC

Herrich & Beaver *f*
Russell C. E. *f a*
Sawyer & Bishop *f*

CHARLEVOIX

Harsha H. S. *f l s*
Kane R. W. *f s*

CHARLOTTE

Culbertson B. J. *f l*
Fox G. *f*
Jennings & Resch *f*
Parkhurst & Rowley *f l a p g*

CHEYBOGAN

Humphrey Geo. P. *f*
Lyons N. W. *f*
Moore N. *f*
Quay David *f*
Shoemaker W. E. *f*
Taylor Sam'l H. *f l a*

CHESANING

Burrows L. P. *f l l s*
Clough A. B. *f*
Coryell B. G. *f*
Dredge W. P. *f*
McKenit H. F. *f*

COLDWATER

Allen E. J. *f*
Dickinson C. H. *f*
Evans John S. *f*
Fenn Jas. W. *f*
Fisk L. D. *f*
Howe Chas. *f*
Lowry W. T. *f l l a*
Newberry & Peters *f*
Nichols G. A. *f*
Parkhurst John G. *f*
Reynolds Frank *f*
Stevens G. W. *f*
Van Blaricum W. S. *f*

Warren J. H. D. *f*
White G. M. *f*

CORUNNA

Agnew Thos. *f*
Chappel W. R. *f l m a l s t*
Cooper S. W. *f m*
Eitch John M. *f p g*
Goodrich D. L. *f*
Knight J. G. *f*

DETROIT

Amberg Lee *f*
Andre H. H. *f*
Angus S. F. *f*
Babcock A. H. *f*
Bassett J. *f*
Baxter & Bliss *f*
Bayer & Fox *f*
Bierce & Sage *f*
Blackman F. H. *f t*
Bradley & Houghton *f*
Breckenridge D. S. *f*
Brown C. F. *f*
Brown J. T. *f*
Buchnell J. A. *f*
Bunclark Alfred *f*
Burton & Son *f m*
Chamberlain C. A. *m f*
Chandler Geo. W. *f p g a*
Clark J. J. *f m*
Clark C. L. & Co. *f p g*
Coulter A. P. *f*
Crossman R. *f*
Davenport F. O. *f m p k*
Davenay W. I. *f*
Day J. C. *f*
Doan H. F. *f*
Duvernois Bros. *f*
Early Michael *f*
Elliot O. H. *f*
Erwin John G. *f m*
Fox L. H. *f*
Fen J. W. *f*
Gage Wm. T. *f*
Goodrich Bros. *f*
Grant Schuyler *f*
Grosfield & Scanlon *f*
Gross B. S. *f*
Guenther Fred *f*
Guthard H. J. *f*
Hahn H. C. *f*
Hannan W. W. *f*
Hartenstein R. F. *f l*
Hayes E. H. & Co. *f*
Heathcote Thos. *f*
Heidt H. D. *f*
Hodges Bros. *f*
Holmes H. G. *f l*
Home Colin M. *f*
Hopkins John T. *f*
Jones J. A. *f*
Jones J. M. *m f*
Karrer & Berschbach *f*
Keiffer A. K. *f*
Kopp Firmin *f*
Koppin H. L. *f*
Krecke Florence *f*
Kurth F. W. A. *f*
Lake B. F. *f*
Le Beau McCurdy C. *f*
Lindsay A. G. General
Insurance Agent, 98 Gris-
wold street

Lowe Edw. W. *f*
Macklem Bros. *f*
Mallery A. S. & C. *f*
Margah Lewis F. *f*
McFarlane J. M. *f*
McGraw Homer & Co. *f*
McLoud & Son *f*
McSween J. F. *f*
Miller & Gschwind *f*
Moore C. W. *f*
Moore W. S. *f*
Morphy John *f*
Munson & Zimmerman *f a m*
Ohrns Henry *f*
Parker & Millen *f m*
Parkinson & Bonninghaus-
sen *f*
Partridge G. W. *f*
Patton J. T. *a*

Peltier C. F. *f*
Pickell C. W. *f*
Pierson D. A. *f*
Price J. W. *f*
Ralph P. J. & Co. *f m*
Reilly & Metcalf *f*
Rohus H. C. & Co. *f*
Rolsen F. D. *f*
Ross & Bond *f l a*
Rothwell & Co. *f*
Saenger Alex. *f*
Schmemmann Karl & Son *f*
Schulte A. *f*
Schulte P. & Son *f*
Selling L. *f*
Simons D. W. *f*
Sterling Jas. T. *f a*
Stuber Geo. *f*
Stoll Julius *f*
Sweet Charles E. *f l a*
Thomas J. H. & Co. *f*
Thompson J. W. A. *f*
Tyler W. L. *f*
Vernor Bros. *f l*
Vieman C. L. *f*
Ward Eber *f m*
Warren E. J. *f*
Watkins G. A. *f*
Whitaker B. & Sons *f m*
Whitman M. I. *f*
Whitney F. H. *f*
Wiggins T. L. *f*
Wilson & Nagle *f*
Wooster John *f*
Worcester Ira *f m*
Wunch Henry *f*

DOWAGIAC

Becraft J. O. *f p g*
June John E. *f l a*
Lee C. T. *f*
Lyle Frank *f*
Michael Henry *f*
Ross & Bond *f l a*
Sweet Charles E. *f l a*
Wooster John *f*

DUNDEE

Barnes T. W. *f l*
Corbin B. J. *f*
Hendricks B. W. *f*
Ingersol R. *f*
Wilkerson H. A. *f*

EATON RAPIDS

Hamilton H. H. *f*
Harris E. S. *f*
Hendee J. B. *f*
Markham C. O. *f*
Milbourn H. J. *f a l*
Osborn A. *f*
Reynolds T. L. *f l a*
Stirling W. F. *f l*

ESCANABA

Merriam F. J. & Co. *f m a s*
p g c t l
Northrup & Northrup *f a s*
p g c t l
Zane J. G. *f*

EVART

Dexter S. F. & Son *f l t*
Lewis W. A. *f*
Rick J. J. *f l*
Smith Carns B. A. *f*

FENTON

Barber George W. *f*
Frockelton David S. *f*
Gorton F. *f*
Latourette H. B. *f*
Millard Walter *f*
Tinker Clarence *f*
Turner Charles H. *f*
Wilnot George W. *f l a*

FLINT

Algoe J. *f*
Denham G. L. *f l a*
Eddy Jerome *f*
Henderson L. H. *f*

Horton A. R. *l*
Mathews W. C. *fl*
Newall George E. *fl*
Paterson J. I. *fl*
Townsend J. H. *fl*
Turner E. C. *fl*
Van Vleet J. & Son *fl*
Willett F. E. *fl*
Willison L. G. *fl*

FRANKFORT

Chandler E. R. *fl a m l*
Hill T. J. *fl a*
Parker N. A. *fl*

GLADSTONE

Haber Fred *fl*
Scott Charles H. *fl*
Voorhis C. *fl*
White E. V. *fl*

GRAND HAVEN

Danhof J. J. Jr. *fl a m l*
Kirby Jos. O'Brien *fl m*
Pfaff J. A. *fl a*
Sanford G. D. *fl m a*

GRAND RAPIDS

Bishop L. K. & Co. *fl*
Bodwell & Franklin *fl*
Chauncey C. W. *fl*
Clark & Bowen *la*
Crosby J. S. & Co. *fl*
Doaker & Van de Riet *fl*
Eisenhardt Jacob *fl*
Fitzgerald & Frankford *fl*
Fox P. V. *l*
Gallup James *fl*
Granger A. M. & Co. *fl*
Grinnell Henry & Son *fl s pg*
Heath L. W. *fl*
Holden E. G. D. & Son *fl a*

Hugenholz H. P. *fl*
Huston H. B. *fl*
Lathrop F. *fl*
Loet gert *fl*
Loomis R. B. & Co. *fl*
McBain W. Fred *fl*
McKee J. A. & Son *fl*
Mercer Chas. E. *fl*
Naysmith Bros. *fl*
Newell George H. *l*
Perkins & Boer *fl*
Pfaff & Winsor *fl s*
Provin L. S. *fl*
Quintus *fl*
Rathbun & Meyers *fl*
Reclofs George *fl*
Scribner W. R. *fl*
Shinkman & Shickell *fl*
Taylor Thomas *fl*
Tuttle Bros. *fl*
Voorhis Mrs. P. O. *fl*
Watkins Charles W. *fl a s*

GREENVILLE

Crane Wm. M. *fl a*
Fuller J. M. & Son *fl a pg*
Gracey James *fl a*
Jones E. H. *fl*
Kemp O. C. & Co. *fl a pg*

HANCOCK

Dunstan & Hanchette *fl*
Erickson John *fl*
McDonnell Simon *la*
Mitchell J. N. & Co. *fl a*
Wright & Stringer *fl m a s*

HASTINGS

Bauer C. H. *fl*
Bessmer John *fl*
Burton E. A. *fl*
Colgrove P. T. *fl a*
Hayes W. D. *fl a*
Kenastan A. E. *fl*
Lowden W. O. *fl*
McElwain J. M. *fl a*
Rogers D. W. *fl*
Striker Daniel *fl pg*
Swezey James A. *fl*
Wetzel L. A. *fl*

HILLSDALE

Bishop S. D. *fl*
Houtwell W. B. *fl*
Guernsey A. E. *fl*
Haynes R. O. *fl*
James O. A. *fl*
Reynolds E. G. *fl*
Reynolds L. P. *fl*
Reynolds W. H. *l*
Rogers E. B. *fl*
Sutton J. R. *fl*
Twiss F. M. *fl*

HOLLAND

Doesburg Jacob S. *fl*
McBride P. H. *fl*
Post H. D. *fl a*
Thurber Mrs. L. M. *fl*
Van Duren G. J. *fl*
Visecher A. *fl*
Walsh H. & W. C. *fl*

HOLLY

Baird C. H. *fl a*
Baird John M. *fl a pg*
Collier C. T. *fl*
Newell E. M. *fl*

HOUGHTON

Douglas F. A. *fl m a*
Dunstan & Hanchette *fl*
Erickson John *l*
McDonnell S. *fl*
Mitchell John & Co. *fl*
Slockett John *l*
Van Orden Bros. *fl m c*
Wright & Stringer *fl m a s*

HOWARD CITY

Collins J. C. *fl*
Mather N. W. *fl*
Perry Chas. W. *fl*
Wolfe Otto J. *fl*

HOWELL

Baron Richard *fl*
Beach Homer N. *fl*
Benedict O. H. *fl*
Gordon T. Jr. *fl pg*
Hopper H. & Son *fl pg*
Howlett Lewis *fl*
Stowe Isaac *fl*
Switzer T. *fl*

HUDSON

Chandler Bert D. *fl*
Palmer John C. *fl a*
Peck James I. *fl*
Retan F. A. *fl a*
Schermehorn Jas. *l*
Southworth E. J. *fl*
Thompson G. I. & Co. *fl*
Whitbeck George W. *fl*

IONIA

Clute & Clute *fl*
Dertbick C. B. *fl pg*
Kimball A. W. *fl*
Mitchell John H. *fl*
Montgomery E. T. *fl a*
Soule W. F. *fl*
Wardle Clarence B. *fl pg a*
Wardle H. M. *fl*

IRON MOUNTAIN

Bergeron David *fl*
Commercial Bank *fl*
Miller R. Theo. *fl*
Sterling S. T. *fl*

IRONWOOD

Gardner A. D. *fl*
Hanscom C. A. *fl pg a c sb*
Karste O. E. *fl a c pg sb*
Murphy P. C. *fl*

ISHPEMING

Gunderson Hans *fl a*
Hall & Moss *fl*
Sedgwick Wm. *fl*
Young H. O. *fl*

JACKSON

Birney T. J. *fl*
Brown & Edwards *fl pg*
Campbell W. M. *fl*
Cummings Frank *fl*
Gibson W. T. *fl*
Graves O. J. *fl pg a s*
Hall N. B. & Son *fl a pg sb c*
Livermore F. *fl*
McDevitt John *fl*
Musliner S. *fl*
Tinker A. M. *fl*
Webb W. B. *fl a pg sb c*

JONESVILLE

Hawkins Victor *fl*
McNeal S. D. *fl*
Ransom W. M. *fl*
Sibbald J. A. *fl*

KALAMAZOO

Bostwick J. H. *fl a*
Coleman O. F. *fl a*
Cornell Horace F. *fl*
De Yoe E. W. & W. M. *fl*
Faxon Sidney W. *fl a pg*
Garrett Chas. H. *fl a s pg*
Hinckley E. H. *fl*
Jannasch Charles F. *fl*
Kidder & Bleazby *fl*
Richards Harry *fl a s*
Shakespeare A. J. Jr. *fl*
Turner J. B. *fl*
Woodard & Pendleton *fl*

KALKASKA

Bleazby A. A. *fl*
PHELPS Cassius M. *fl*

LANSING

Bartlett H. P. *fl*
Charles & Co. *fl*
Cline H. O. *fl a*
Davis Arthur *fl*
Dyer & Hudson *fl a sb*
Garlick W. J. *fl*
Gavner T. C. *fl*
Gillam D. J. *fl pg*
Kelley E. O. *fl*
Klockslem & Bailey *fl a*
McKeen Ira *fl a*
Merrifield E. R. & Co. *fl pg*
Mott & Ackerman *fl a pg c*
Porter & Porter *fl a*
Rowe & Edmonds *fl a m s*
Schneider Fred *fl k*
Sindlinger F. J. *fl*

LAPEER

Abbott W. S. *fl*
Bailey W. H. *fl pg*
Holland D. E. *fl*
Kohler & Bentley *fl*
Norton Gad *la*
Sayton E. T. *fl*
Strong H. L. *fl*
Thompson Frank *fl*

LOWELL

Alger & Perry *fl*
Church & Son C. J. *l*
Eddy F. D. & Co. *fl a*
Hicks S. P. *fl*
Mains & Mains *fl*
Stocking F. D. *fl*
Stone H. N. *fl*

LUDINGTON

Arnott R. *fl m a*
Dunwell & Rohn *fl a pg s*
Ellsworth A. C. *fl pg*
Wheeler R. R. *fl a*

LUTHER

Nicholson Ernst *fl*
Barnes & Co. *fl a m s pg sb*
Douvle & Thornburn *fl m*
Dustin H. N. *la*
Giesman G. R. *fl pg*
Ramsdell J. M. *fl m*
Wallace & Hart *fl pg*

MARINE CITY

Baird Wm. *fl m*
Clark E. M. *fl*
Garrison R. A. *la*
Heinkelmann A. *fl m*
McElroy & Leitch *fl m*
McElroy Frank *fl*
Morley H. T. *m*

MARQUETTE

Adams S. *fl*
Call C. H. & Co. *fl m a*
Cochran & Brown *fl a*
Crawford M. D. *l*
White Peter & Co. *fl m a c*
Wilkinson J. M. *fl*

MARSHALL

Canney G. B. *fl*
Cunningham D. *fl*
Haskell H. C. *fl*
Hatch Jesse M. *fl s*
Hewett E. *fl*
Hollan H. E. *fl*
Joy Clarence *fl*
Lockton R. S. *fl*
Mases J. M. *fl*
Miller C. O. *fl a*
Parsons J. M. *fl a*
Vernor J. T. *fl*

MASON

Avery Elmer *fl*
Barnes John A. *fl a*
Bristol Geo. W. *fl*
Casterline C. L. *fl*
Clark L. Frank *fl*
Cummins A. M. *fl s*
Du Bois A. O. *l*
Freeland H. C. *la la*
Hood O. J. *la*
Makley J. H. *la*
Makley Wm. *fl a*
Miller O. F. *fl*
Parkhurst A. *fl*
Sanders G. E. *fl*

MENOMINEE

Brown Franklin H. *fl*
Fleshien Joseph *fl*
Ludwig C. H. *l*
Ruff Geo. H. *l*
Stephenson J. A. *fl a m*
Wall Jos. *l*
Walton J. H. *l*

MIDLAND

Anderson Uros. *fl a*
Burch Byron *fl*
Fairchild H. L. *fl*
Fales Ira *fl*

MONROE

Bragdon A. B. *fl*
Cron J. Geo. *fl*
Donsard B. & Son *fl*
Davis John *fl*
Hackett Walter *fl*
Hurd George R. *fl*
Itchner George *fl*
Jaminet J. P. *fl*
Kirchgessner Chas. *fl*
Little George *fl*
Loranger P. B. *fl*
Meyerfeld Solomon *la*
Navarre A. T. *la*
Noble H. S. *fl*

MONTAQUE

Losley S. H. *fl*

MORENCIE

Brown N. R. *la*
Butler Ernest L. *fl*
Cawley Frank *fl*
Rorish E. B. *fl*
Wilson Clarence A. *l*

MOUNT CLEMENS

Eldredge R. F. *fl*
Farrar R. J. *fl*
High W. C. *fl pg a*
Lungershausen & *fl a m c*

MICH., Mt. Clem.—Con

Lyons W. W. *f*
 Monfort F. P. *f*
 Murch Wm. *f*
 Rutter W. Henry *fl*
 Salisbury E. J. *f*
 Ullrich P. *f*
 Van Eps E. A. *fl*

MOUNT PLEASANT

Carnahan Chas. A. *f*
 Chatterton Geo. A. & Son *f*
 Clarke J. G. *ls*
 Jameson I. R. *f*
 Lance A. A. *f*
 Lyon & Livingston *fl* *g* *a*
 Preston W. E. *f*
 Wallington F. C. *f*

MUSKEGON

Billingshurst C. C. *f*
 Doane O. A. *fl* *g*
 Easton R. P. *fl* *a*
 Horn W. S. *fl* *a*
 Joslyn & McFarlan *fl* *ls*
 Kelly W. D. *f*
 Lange Max *a* *fl*
 Mulder J. *f*
 Owen W. W. *a* *fl*
 Smith L. B. *a*
 Smith Wm. A. *f*
 Spalding S. *f*
 Stevens S. H. *f*
 Wilson F. W. *a* *fl* *g*
 Worden E. A. *f*

NASHVILLE

Feighner E. J. *f*
 Hough C. *fl*
 Ingersoll C. E. *f*
 Putnam C. M. *f*

NEWAYGO

Shaw E. O. *fl* *a*
 Underwood May G. *f*
 Watrouse & Newton *a* *fl*

NILES

Bacon N. H. *f*
 Cooper Z. L. *f*
 Fish B. F. *f*
 Gilbert W. J. *f*
 Hinkel John & Son *f*
 Hutton W. M. *fl*
 Jackson G. W. *f*
 Johnson C. A. *f*
 Landon Worth *f*
 Sinclair Wm. H. *fl*
 Wilkinson L. F. *fl* *a*
 Wurz Chas. G. *f*

NORTHVILLE

Ambler W. H. *f*
 Beal K. A. *f*
 Chadwick C. C. *f*
 Simonds E. K. *f*
 White P. E. *f*

OTSEGO

Hart Frank N. *fl*
 Martindale H. H. *fl* *a*
 Palmer A. T. B. *a*

OTTER LAKE

Bathrick L. *f*
 McCormack W. E. *f*

OWOSSO

Ash John *f*
 Byerly & Loring *f*
 Colt Geo. *fl*
 Colt George *fl*
 Edwards Fred *fl* *ls* *ls*
 Flickenger Louis *f*
 Goodwin Chas. *fl*
 Hamblin L. A. *f*
 Kilpatrick Wm. *f*
 Lyon & Hadsel *f*
 Osburn Fred *f*
 Salisbury D. *f*
 Waters D. W. *f*
 Woodward Elbert W. *f*

OXFORD

Hagerman Clyde *fl* *g*
 Kinsman Geo. O. *fl* *g*
 Lincoln A. *f*
 Marsh E. S. *f*
 Slayton R. W. *f*
 Tunstead W. J. *fl* *g*

PAW-PAW

Chapin H. A. *f*
 Free J. W. *f*
 Grimes F. P. *fl*
 Mason W. H. *fl* *a* *fl* *g*
 McCabe H. W. *fl*
 Noble D. D. *f*
 Parks Edward F. *fl*
 Richardson Millan U. *l*
 Titus & McNeil

PETOSKEY

Call Clay E. *f*
 Coburn & Johnson *f*
 Dart & Dart *f*
 Hamill A. L. *a*
 McCune W. J. *f*
 Pratt C. R. *f*
 Wachtel & Barnum *fl*

PLAINWELL

Heath John *f*
 Negus S. B. *fl* *a*
 Soule & Hicks *f*
 Woodard O. J. *f*

PONTIAC

Bromley P. B. *f*
 Coonley W. L. *f*
 Crawford F. A. *f*
 Davis D. L. *f*
 Gaylord J. C. *fl* *fl* *g*
 Lounsberry R. J. *f*
 Lawyer J. E. *f*
 Thatcher H. H. & G. G. *fl* *a*
 Troubridge L. O. *f*
 Webster E. R. *f*

PORT AUSTIN

Hall James H. *a*

PORT HURON

Atkins Lewis *fl* *fl* *ht*
 Bradley Jas. *fl* *ht*
 Cronan J. J. *fl* *ht*
 Fraser & Fish *fl* *ht* *ht*
 Garbut Fred *fl* *ht*
 Gleason John *fl* *ht*
 Hyde O. F. *fl* *ht*
 Jenkinson Geo. *fl* *ht*
 Newell P. H. *fl* *ht*
 Phillips Wm. M. *fl* *ht*
 Phillips P. H. *fl* *ht*
 Robeson H. J. *fl* *ht*
 Schoolcraft & Co. *fl* *ht*
 Spalding E. G. *fl* *ht* *ht*
 Walsh Jos. *fl* *ht*
 Wellman & Carson *fl* *a* *fl* *g*
 Welton & Eckles *fl* *g* *ht* *ht*
 Wright & Carson *fl* *c* *ht* *ht*

PORTLAND

Allen E. M. *f*
 Cook Pierce G. *f*
 Jenkins O. N. *fl* *a*
 Morse G. M. *fl* *a*
 Webber John *a*

QUINCY

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 Brown M. M. *f*
 Lockerby W. H. *fl*
 Rawson & McGinnis *f*
 Skinner C. D. *fl*

READING

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 Cortright N. J. *f*
 Culver F. D. *f*
 Culver Z. G. *f*
 Kiony A. L. *fl*
 Mallory Matt G. *f*
 Mallory S. B. *f*
 Northrup Burr *f*
 Shafer A. *f*
 Shafer O. B. *ls*

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Holman W. J. *fl*
 Wright & Stringer *fl* *a* *fl* *g*
c *sb*

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 Stone Melville *f*
 Winsor Lou. B. *f*

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 McFarland James *f*
 Phillips G. W. Jr. *fl* *a*
 Seaman B. N. *fl* *a*
 Smith O. J. *f*
 Smith J. W. *fl* *a*
 Starkweather J. L. *f*

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 Fowler C. G. *fl* *a*
 Geer B. & Son *fl* *a* *fl* *c* *sb*
ht
 Khuen Richard *fl* *m*
 Lockwood George S. *f*
 Potter F. H. *f*
 Schoeneberg E. *fl* *a*
 Wood & Joslin *f*

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fl *c* *sb*
 Fey Conrad *f*
 Gabel C. A. *fl*
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sb
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 Norton & Weimer *f*
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 Sawyer W. K. *fl* *a* *fl* *g*
 Schulz Louis S. *fl* *a*

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 Long & Aldrich *fl* *a* *ht*
 Moore Russell *f*
 Phillips E. C. *fl* *a* *ht*

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fl *g*

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c *sb*
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 Cross Geo. *f*
 Ferris E. *ls*
 Harsha W. F. *fl* *a* *fl* *g* *fl* *g*
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 Shaver T. R. *fl*

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p g h k l s
Moore S. f h l s
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Dudley Paul f

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Hilgers Gerhard f
Klinkhammer J. H. J. f h t
Klinkhammer & Schriever f
a l h t
Leonard & Nicolai f
Rausch C. F. f

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 Eaton M. S. General Ins.
 Agent, Endicott Building
 Edwards J. C. *f*
 Errett F. J. *f*
 Fahey Lawrence *f*
 Fisk E. A. & J. E. *f l*
 Franzen J. F. *f*
 Fugate J. S. *a*
Gardner & Warner Fire
 Insurance, 30 East 4th st
 Gebhardt Fred *f*
 Gilbert C. B. *f g*
 Gilman E. A. *f*
 Haas Henry S. *f*
 Haas J. Q. *f*
 Hart H. M. *f*
 Hart W. H. *f l*
 Hawley Chas. S. *f*
 Hilliard Wm. P. *f*
 Herrick J. W. *f*
 Hosmer G. H. *f*
 Hoyt & Anderson *f*
 Hughson & Hemenway *f*
 Hurd Ruckard *f*
 Ingersoll & Co. *a c s*
 Jeffreys J. *f*
 Jensen & Neurn *f*
 Kain M. F. & J. F. *f*
Kibbee C. W. Fire Insur-
 ance, German American
 Bank Building
 Knauft B. F. *f*
 Lautz Carl C. *f*
 Learned C. E. *f*
 Lilly T. J. *f*
 Loomis Frank F. *f*
 Mahon L. M. *f*
 Manter Edw. L. *f*
 Martin Henry *f*
 McClure John *f*
 McDonnell & Hood *c a*
 Michel George *f*
 Miller & Hillman *f g*
 Minea Bros. *f*
 Moritz W. F. *f*
 Mott G. C. *f*
 Murray S. R. *f*

Murray & Bell *f*
 Murton A. W. *f*
 Neely & Neely *c*
 Nelson A. N. *f*
 Newport R. M. & Son *f*
 Olmsted C. E. D. *f*
 O'Meara Chas. *f*
 Overpeck R. A. *f*
 Parker Basil *a c*
 Patterson H. C. *a*
 Peet E. W. & Son *f l*
 Perry A. W. *f*
 Pleins R. C. *f*
 Polk D. F. *f*
 Prince & Shandrew *f*
 Reeves & Gilman *f*
 Rogers John Jr. & Bros. *f l*

Rothschild V. J. *f*
 Schnabel Geo. E. *f a*
 Shepard J. W. *f*
 Smith & Talmadge *f*
 Smith & Parker *f g*
 Sprague A. H. *f*
 Spence W. W. *a*
 Stahl B. F. *f*
 Stocker A. C. *f*
 Strickland W. G. *f*
 Swift Fred *f*
 Thegarten Paul *f*
 Tooker E. O. & R. M. *f*
 Townsend John *f*
 Townsend W. S. *f*
 Trumbull A. J. *f*
 Waller G. C. *f*
 Wann L. L. *f*
 Watson Geo. H. & Co. *f g*
 Watson J. J. *c*
 Weed & Lawrence *f l g a s t*
 Wheeler F. M. *a*
 Wilkes L. D. *f*
 Williams Evan
 Worrell Granville *f*
 Wright B. F. & Co. *f l*

ST. PETER

Hensel Chas. *f l*
 Lamman Wm. *f a f t*
 Sackett J. B. *f g*

SAUK CENTRE

Bishop H. W. *f a*
 Cooper J. F. *f*
 Dennis J. H. *f*
 Hogan M. *f*
 Kells Robt. *f*
 Morse & Lamb *f l a h*
 Smith A. J. *f*
 Sprague C. M. *f*
 Woodbury M. F. *f*
 Woods B. O. *f g*

SAUK RAPIDS

Berg Herman *f*
 Fletcher Wm. H. *f*
 Kasner A. E. *f*
 Meagher S. E. *f*
 Senn John A. *f*
 Wright S. N. *f l a l k t*

SHAKOPEE

Case C. I. *a*
 Coller J. A. *f*
 Deuch & Zettel *f*
 Meyer Nick *f*
 Newcomb & Grafenstatt *f*
 Wilder George *f*
 Willson Wm. *f a*

SLEEPY EYE

Blake C. R. *f*
 Davis L. G. *f t*
 Gallagher I. *f t*
 Geschwind Peter *f l*
 Gieseke & Von Hagen *f t*
 Griffith & Smith *f t*
 Hodges W. R. *f*
 Mo Hans F. T. *f*
 Roth N. B. *f t*
 Somerville G. W. *f t*
 Woolley W. W. *a*

STILLWATER Castle L. B. <i>flta</i> Gorham Geo. I. <i>fla</i> Joy F. E. & Co. <i>fla l pgs</i> <i>sb</i> Prince & Dixon <i>fla s pgs</i> Smith H. E. & Co. <i>f</i> TOWER Whitman Geo. A. <i>f</i> WABASHA Haines C. J. <i>fl</i> Johnson R. A. <i>fl</i> Jones R. E. & Co. <i>fl m a</i> <i>pgs</i> McGovern J. F. <i>f</i> Paine H. <i>f</i> Stone A. J. <i>f</i> Southworth A. D. <i>fl</i>	WADENA Baumbach C. W. <i>fl</i> Dower John <i>fl</i> Field F. C. <i>fla pg</i> Irwin A. L. <i>fl</i> Kingsley C. M. <i>fl</i> Mettel John <i>l</i> Murray A. <i>fla pgs</i> Parker W. E. <i>fl</i> Willson Frank <i>fl</i> WASECA Barden Thos. <i>f</i> Buckman G. R. <i>fl</i> Coleman Thomas <i>fl</i> Madden J. <i>f</i> Moonan John <i>f</i> Smith G. A. <i>f</i> Swenson S. <i>f</i> Swift W. A. <i>f</i>	WELLS Andrews C. N. <i>f</i> Bliss Geo. W. <i>f</i> Cote F. A. <i>fl</i> Hall C. B. <i>fl</i> Joice J. H. <i>f</i> Myers W. F. <i>f</i> Quinn J. H. <i>f</i> Reese Ralph <i>fl</i> Southwick O. F. <i>f</i> WHITE BEAR LAKE Getty Daniel <i>fl</i> Hanna David <i>fla</i> Haussner J. A. <i>fl</i> Schnabel Geo. E. <i>fla</i> WILLMAR Handy F. G. <i>fl</i> Olsan Olaf <i>fla</i> Porter Samuel <i>f</i>	Quale G. E. <i>f</i> Thorpe L. O. <i>fl</i> WINNEBAGO CITY Armstrong J. A. <i>f</i> Bullis H. L. <i>fl pgs</i> Dunn Andrew <i>f</i> WINONA Bassford R. B. <i>f</i> Bierce C. A. & Co. <i>fla pgs</i> Buffum Clarke <i>f</i> Dixon & Kemp <i>fla</i> Flenje F. J. <i>fla</i> Fuhrman H. C. <i>f</i> Hubbell H. P. <i>fm</i> Morse & Robertson <i>fla</i> Porter C. H. <i>l</i> Prentiss, Schmidt & Co. <i>fl</i> Rising F. A. <i>f</i> Smith, Pox & Gile <i>fla</i> Walz & Kunkel <i>f</i> Walson N. H. <i>f</i>
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MISSISSIPPI.

ABERDEEN Clifton & Sykes <i>fas</i> McIniston D. H. & Co. <i>fa</i> BATESVILLE Burchart S. <i>f</i> Perkins & Jones <i>f</i> BAY ST. LOUIS Willenberger E. <i>f</i> Touline J. V. <i>f</i> BILOXI Mayers & Theobald <i>fl</i> Morrill E. W. <i>f</i> BROOKHAVEN Daughtry J. B. <i>fa</i> Davis Z. D. <i>f</i> McNair Chas. <i>f</i> Miazra J. F. <i>f</i> CANTON Foot & Co. <i>flta</i> Maas B. <i>fla</i> CARROLLTON Neison C. J. <i>f</i> Roach Benj. <i>f</i> CLARKSDALE Bouldin & Carr <i>fla</i> Pettis W. S. <i>f</i> COFFEESVILLE Brannon W. L. <i>fl</i> COLDWATER Darby Mrs. S. L. <i>f</i> Gilliland W. R. <i>f</i> COLUMBUS Blumh J. <i>l</i> Daskeill H. J. <i>f</i> Hopkins Jas. W. <i>fa</i> Humphries John W. <i>fla</i> Lee W. H. <i>f</i> Leigh F. M. <i>f</i> Long John K. <i>f</i> Moore Edward S. <i>f</i> Rhett Wm. <i>l</i> COMO Brown C. K. <i>f</i> CORINTH Young John E. <i>flta sb</i>	CRYSTAL SP'GS Aby S. H. <i>fl</i> Newton Bros. <i>flta</i> DUCK HILL Butt C. C. <i>fla</i> DURANT Bancroft C. N. <i>f</i> Gresham W. F. <i>l</i> Lowrance H. F. <i>f</i> FRIARS POINT Robinson F. D. <i>fla</i> Yerger Rucks & Co. <i>fla</i> GREENVILLE Ferguson Benoit & Co. <i>fm</i> Finlay John P. <i>fm</i> Mount Thomas <i>l</i> Wheatley George <i>l</i> GRENADA Hoffa Wm. B. <i>l</i> McLeod & Snider <i>fca</i> Thomas & Hoffa <i>f</i> HANDBORO Myers E. B. <i>fl</i> HAZLEHURST Allen C. I. <i>l</i> Ard J. L. <i>f</i> Birdsong L. F. <i>l</i> Covington Geo. W. <i>l</i> Ellis J. N. <i>f</i> Graves A. T. <i>fla</i> McMaster J. W. <i>l</i> HERNANDO McKenzie D. <i>f</i> Smith & Solomon <i>fls</i> HOLLY SPRINGS Craft Addison <i>f</i> JACKSON Lake R. P. <i>l</i> Mimms R. P. <i>l</i> Robinson & Robinson <i>f</i> Ross & Yerger <i>f</i> Wharton & Roberts <i>la</i> KOSCIUSKO Brown J. P. <i>flta s</i> Meek R. B. <i>f</i>	LEXINGTON Willis & Dyer <i>fla</i> Young W. L. & Co. <i>f</i> MACON Dinsmore & Havenstein <i>f</i> Fant John C. <i>f</i> Patty Edward C. <i>fla</i> Redwood W. F. <i>l</i> MAGNOLIA Hough John <i>f</i> Moore A. P. <i>f</i> Nettles W. K. <i>l</i> MERIDIAN Cameron B. F. <i>l</i> Cameron H. D. <i>l</i> Cavett J. C. <i>l</i> Elson J. <i>l</i> Elson L. <i>l</i> Grimes Ben H. & Co. <i>fla</i> Keeling E. B. & Co. <i>f</i> Logan H. B. <i>l</i> Lloyd J. C. & Co. <i>f</i> Spinks Chas. <i>l</i> Townsend S. W. <i>l</i> MOSS POINT Randall O. <i>fa</i> NATCHEZ De Lap E. G. & Co. <i>flma</i> <i>lpg</i> Mayer Simon <i>fall</i> Micalf O. <i>f</i> Rawle John <i>fm</i> OKOLONA Bramlitt T. L. <i>f</i> Williams T. W. <i>fl</i> OXFORD Porter W. D. <i>fla</i> Price Ben <i>fla</i> PORT GIBSON Block Chas. D. <i>fl</i> Drake E. S. & J. T. <i>flta s</i> Fulkerson W. B. <i>fl</i> Gordon C. A. & Co. <i>f</i> Martin J. McC. <i>fs</i>	SENATOBIA Hill T. P. <i>fl</i> Taylor N. A. <i>f</i> STARKVILLE Hogan C. A. <i>fas</i> Reynolds W. H. <i>fla</i> SUMMIT Atkinson E. S. <i>fl</i> Gracey Geo. T. <i>fl</i> Tenneson C. E. <i>f</i> TUPELO Saverys Ins. & R. E. Agency <i>fla</i> VAIDEN Armstrong John J. <i>f</i> McCormico S. E. <i>f</i> VICKSBURG Buck & Hackett <i>fm</i> Moore & Preston <i>fla m sb</i> <i>pgs</i> O'Neil F. E. <i>flm a sb</i> Halpin John F. <i>fl</i> Lee A. C. <i>fm a</i> Markham H. M. <i>l</i> WATER VALLEY Ables G. D. <i>f</i> Brown S. B. <i>fa pg</i> Hanmer W. C. <i>fa</i> WESSON Lyell J. G. <i>f</i> Oliver A. B. <i>l</i> Rea Jas. S. <i>flta</i> WEST POINT Hibber Tol. <i>flta</i> Roberts F. M. <i>fl</i> Turbiville J. W. & Co. <i>f</i> WINONA Campbell C. H. <i>fas</i> Campbell N. N. <i>l</i> Furnell & Hawkins <i>f</i> YAZOO CITY Barnwell I. H. <i>f</i> Gardner A. F. <i>fam</i> Powell G. M. <i>at fpg</i>
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MISSOURI.

ADRIAN Bricker J. N. <i>f</i> Fair H. L. <i>f</i> Hamilton F. V. <i>f</i> Herrell J. F. <i>f</i> Hoover R. E. <i>f</i> Mahon W. S. <i>fa</i> Satterlee A. J. <i>f</i> Smith A. J. <i>f</i>	ALBANY Boyd & Gibbany <i>flts k</i> Hubbard Wallace <i>fl</i> Humphrey T. M. <i>fls</i> Magee R. M. <i>fl</i> Millen W. M. <i>fl</i> Peery J. W. <i>fl</i> Power J. C. <i>fl</i>	APPLETON CITY Chapel W. W. <i>f</i> Hill John <i>f</i> Hodkins Jas. <i>fl</i> King E. M. <i>fl</i> Miller F. H. <i>fla</i> Page H. H. <i>f</i> Sturtevant S. C. <i>fl</i>	ASH GROVE Brock J. <i>fl</i> Comegys C. B. <i>fl</i> Dalzell W. H. <i>fl</i> Martin B. R. <i>f</i> Musgrave L. H. <i>fl</i> Norris A. J. <i>fl</i>
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MISSOURI—Con.**AURORA**

McKinley & McNabb
Thompson C. G.
Woodhill & McGregor

BETHANY

Alvord R. L. *fl*
Crossan C. W. *fl*
Durham E. R. *fl*
Frisby E. H. *fl*
Heaston D. J. *fl*
Heaston Wm. C. *fl*
Sallee J. M. *fl*
Sigler B. P. *fl*
Skinner E. *fl*
Skinner W. H. *fl*
Wanamaker & Barlow *fl*

BEVIER

Gay J. H. *la*
Sprecher D. L. *fla*

BOLIVAR

Adams, Newton & Co. *fl*
Allen Chas. L. *fls h*
Dunnegan W. B. *fl*
Larrick & Co. *fl*
Leavitt J. M. *fl*
Leonard Ben F. *fl*
McCracken A. J. *fl la*
McCracken H. C. *fl*
Simpson J. C. *fl*
Sperry J. N. & Co. *fl*

BOONVILLE

Draffen D. T. & Co. *fl*
Hazell C. W. *fl*
Hutchinson W. R. *fl*
Knight W. C. *fl*
Levens L. H. *fl*
Stephens S. W. & Bro. *fl*
Trigg W. H. & Co. *fl*
Whitlow & Pendleton *fl*

BRECKENRIDGE

Chapman C. J. *fl*
Hart Walter *fl*
Lawrence A. W. *fl*
Murphy Henry *fl*
Page H. M. *fl*
Russell J. C. *fl la*
Schoenberger R. H. *fl*
Steele J. C. *fl*
Trosper N. L. *fl*

BROOKFIELD

Bailey A. A. *fl*
Crosby A. P. *fl*
Freeman & Smith *fla*
Howard D. F. *fla*
Laing W. L. *fl*
Rusk M. Y. *fl*
Thudium J. C. *fl*

BRUNSWICK

Beareley R. G. *fl*
Benecke Louis *fl*
Benecke Otto *flac*
Davis James W. *fl*
Knappenberger J. *fl*
Plunkett J. T. *fl*
Sasse F. *la*

BUTLER

Catron R. S. *fl h*
Catterlin John *fl*
Clardy & Warnock *fl*
Cook W. W. *fl*
Duvall & Percival *fl*
Hartwell R. G. *fl*
Hickman A. F. *fl h*
Silvers Tom F. *fl*
Sims Col. *la*
Snyder D. W. *fl*
Tuttle Ezra *la*

CALIFORNIA

Barnhill W. M. *fl*
Gordan C. M. *fl*
Hardy I. J. M. *fl h*
Hazell Jas. E. *fl h*
Hunter J. W. *fl*

Moore & Williams *fl*
Seuffert A. *fl*
Wood L. F. *fl*

CAMERON

Allen S. P. *fl*
Cornish E. D. *fl*
Fitzgerald Maggie *fl h*
Flanders Clyde *fl*
Freeman H. L. *fl*
Goodrich J. E. *fl*
McCrag J. C. *fl*
Packard C. D. *fl*
Rollins Chas. H. *fl*
Ross B. *fl*
Walker E. T. *fl*

CANTON

Barrett C. W. *fl*
Cherry John *fl*
Chinn H. C. *fl*
Coudit L. H. *fl*
England L. W. *fl*
Henderson E. G. *fl*
Henton W. B. *fl*
Houghton M. *fl*
Lillard Thos. *fl*
Morris Robert S. *fl*
Weed Edwin *fl*

CAPE GIRARDEAU

Albert L. J. *fl*
Albert L. J. Jr. *fl*
Albert S. *fl*
Bonney Wm. *fl*
Chappell Geo. E. *fl*
Deane & Juden *fl*
Doyle Leo *fl*
Engleman E. H. *fl*
Joseph L. S. *fl*
Parsons J. H. *fl*
Reed & Astholz *fl*
Voyesanger John *fl*
Wichterich N. *fl*

CARROLLTON

Beam O. N. *la*
Glick A. M. *fl*
Hill C. S. *fl*
Houston John G. *fl h*
Lemons R. *fl*
Robinson T. J. *fl*
Thomas D. D. *fl*
Tuley & Grant *fl h*
Turner S. K. *fl*

CARTERVILLE

Campbell A. J. *fl*
Mowbray B. D. *fl*
Walker & Davis *fl*

CARTHAGE

Banks & Harrison *fl*
Garner I. F. *fl*
McEntire & Hunter *fl*
Montgomery R. A. *fl*
Newell J. F. *fl*
Shannon Woodford *fl*
Tuttle, Black & Chase *fla*
Wetzel & O'Donnell *fl*

CHARLESTON

Boone J. N. *fl*
Bridgers G. H. *fl*
Brown J. M. *fl*
Gilbreath G. W. *fl*
Lee W. G. *fl*
Randolph W. N. *fl*
Rosenstein S. G. *fl*
Russell & Deal *fl*
Hisey J. F. *fl*

CHILLICOTHE

Anderson C. A. *fl*
Asper C. W. *fl*
Briggs A. J. *fl*
Davis W. W. *fl*
Edgerton D. W. C. *fl h*
Hurxthal C. D. *fl*
Martin F. M. *fl*
Moos John T. *fl*
Page I. H. *fl*
Schmitze J. L. *fl*
Shower A. O. *fl*

Smith & Dienst *fla*
Trent F. W. *fl*
Voris J. M. *fl*

CLARENCE

Crow W. D. *fl*
Herron W. B. *fl*
Irwin W. A. *fl*
Shanks R. N. *fl*

CLARKSVILLE

Clifford John S. *fl h*
Cochran S. P. *fl*
Estes Edgar *fl*
McQueen T. S. *fl*

CLINTON

Avery H. F. *fl*
Collins & Elliston *fl h*
Land M. C. *fl*
Miller C. E. *fl*
Snyder Bros. *fl*

COLUMBIA

Dorsey J. S. *fl*
Fyler J. H. & Co. *fla*
Hornor J. P. *fl*
Lonsdale H. B. *fl*
Maupin & Crouch *fl*
McClure A. W. *fl*
Pratt W. S. *fl*
Quinn M. G. *fl*
Todd Ben. *fl*
Truit W. H. *fl*

CRYSTAL CITY

Phillippi Louis *la*

DEEPWATER

Banta Sherman *fl h*
Hess J. H. *fla h*
Moore W. E. *fl*
Yentzer J. H. *fl*

DE SOTO

Allen Mrs. Hattie *fl*
Colman A. L. *fl*
Coxwell M. S. *fl*
Edinger Wm. F. *fl*
Herrick Leon *fl*
La Beaume Geo. H. *fl*
Park D. M. *fl*
Reppy S. A. *fl*
Zollman P. C. *fl*

EDINA

Cotley L. F. *fl*
Ennis J. W. *fl*
Hollister W. Carl *fl*
Linville Philip B. *fl*
Schofield R. F. *fl*
Stewart *fl h*
Sullivan Frank *fl*
Scheinbrock Adolph *fl*

ELDORADO SP'GS

Anthony & McCrary *fl*
Briscoe E. H. *fl*
Broughton R. W. *fl*
Davidson C. C. *fl*
Mickey C. V. *fl*
Rogers & Russell *fl h*

FARMINGTON

Burk Seward *fla*
Clay, Buck & Fleming *fl*
Leadbetter H. B. *fl*

FAYETTE

Bedford E. W. *fl*
Brown H. L. & Co. *fl*
Burguin A. B. *fl*
Davis A. F. & Co. *fl*
Furr A. J. *fl*
Smith T. *fl*
Talbot John *fl*
Tolson J. D. & Co. *fl*
Woods J. A. *fl*
Woods Theo. *fl*

FREDERICKTOWN

Albert R. *fl*
Blumer A. *fla*
Settle John *fl*

FULTON

Bauer C. H. *fl*
Bell & Jameson *fla h*
Brown & Leavell *fl*
Henderson & Jameson *fl*
Phillips J. W. & Co. *fl*
Poston F. S. *fl*
Tuttle E. N. *fl h*

GALLATIN

Dudley Boyd *fl*
Britton R. J. *fl*
Clingan Frank E. *fl*
Gillihan & Brosius *fl*
Givens & Co. *fl h*
Jones A. W. *fl*
Picher H. A. *fl*
Selby J. A. *fl h*

GLASGOW

Bentley & Lewis *fla h*
Harrison Geo. B. *fl*
Harrison Geo. B. Jr. *fl*
Henderson J. S. *fl*
Lutz Wm. *fl*

GRANT CITY

Benson Jesse *fl*
Lingenfelter C. H. *fl*
Lingenfelter & Hudson *fl*
Mitchell J. R. *fl*
Sanders & Phipps *fl*
Smoots L. S. *fl*

GREENVILLE

Bennett C. A. *fl*
Cline J. H. *fl*
Meador J. A. *fl*
Rubottom E. C. *fl*
Settle John H. *fl*

HAMILTON

Clark Elmer *fl*
Crosby Johnson *fl*
King I. E. *fl*
Prentice T. J. *fl*
Van Valkenburg L. D. *fl*
Wyatt W. J. *fl*
Young S. M. *fl*

HANNIBAL

Boswell L. W. *fl*
Clayton George D. & Co. *fl*
Derrin & Osborn *fl*
Gannaway Wm. K. & Co. *fl*
Holme John T. *fl h*
Nelson J. T. *fl*
Thies Adam *fl*

HARRISONVILLE

Allen & Hall *fla*
Barrett W. H. *fl h*
Conger Arthur *fl*
Daniels & Son *fl*
Haynes T. N. *fl*
Hoover S. W. *fla h*
Summers W. D. *fl*
Wilson J. M. *fl*

HERMANN

Kessler R. E. *fl*
Meyer August *fl*
Ochsner John *fl*

HIOQUINSVILLE

Branch J. W. *fl*
Campbell H. F. *fl*
Chinn J. P. *fl*
Hoefler C. & Sons *fl h*
Keyton E. F. *fl*
Ragland J. E. *fl*

HOLDEN

Borden F. C. *la*
Carpenter Ella S. *fl*
Gaunt Wm. W. *fl*
Liddle W. H. *fla*
Hart R. D. *fl*
Hawes F. B. *fl*
Hewes J. H. *fl*
Sankey S. R. & Bro. *fla*

HUNTSVILLE

Ferguson A. J. *f*
 Hammett & Shaefer *f*
 Minor T. B. *f*

INDEPENDENCE

Beatty A. C. H. *f*
 Clay & Co. *f*
 Halleran D. C. *la*
 Higgeson A. E. *f*
 Loar W. S. *f*
 Long Samuel I. *a*
 McCoy Wm. *f*
 McCoy Joseph *fg*
 Nichols C. G. *f*
 Ott A. M. *f*
 Prewitt J. A. *f*
 Rider Walter *fla*
 Robinson Vincent B. *f*
 Seal L. M. *f*
 Shaw Geo. *fl*
 Sitlinger R. S. *f*
 Snyder Geo. P. *f*
 Symington & Smith *f*
 Wilson Wm. Thomas *fla*
 Woodson S. H. *f*
 Ziegler John *f*

JEFFERSON CITY

Bauer August J. *fla*
 Burch Oscar G. *fl*
 Cox S. W. *fla*
 Dallmeyer Wm. A. *flfg*
 Fleming & Berryman *f*
 Roer F. W. *fl*

JOPLIN

Bates & Murphy *fl*
 Calvin & Webster *a* *lfg*
 Creach Ira *fl*
 Davidson & Davidson *fla*
 Keesch John *fl*
 Williams E. J. *fl*

KAHOKA

Bostic L. C. *fl*
 Gridley Bert *f*
 Hillar Chas. A. *f*
 McDermott J. W. *f*
 Montgomery S. J. *f*
 Murphy J. F. *f*
 Robinson Wm. H. *f*
 Rutherford W. T. *fl*
 Whiteside John A. *f*

KANSAS CITY

Almond Geo. *f*
 Ackley & Dougherty *a*
 Bacon Walter *f*
 Bailey L. B. Manager
 Ethna Life Ins. Co., New
 England Bldg.
 Baird, Baird & Harwood *f*
 Bales Walter J. & Co. *f*
 Bentley E. W. *l*

BERRY & CO.

Fire Insurance

Agents and

Brokers,

GIBRALTAR BLDG.

Manufacturing risks and
 Surplus Lines a
 Specialty.

Berry & Co. *fla* *msgt*
 Blandy C. A. *a*
 Brainiff John A. *l*

Breathitt J. B. *l*
 Brown J. A. *f*
 Brown P. S. Jr. *f*
 Cherney F. O. *f*
 Courtney C. C. *l*
 Craig Stidington & Collins *f*
 Dean C. A. *f*
 Dew James P. & Co. *f*
 Fitzpatrick J. P. & Co. *f*
 Fetter W. J. *f*
 Fort C. W. *f*
 Fleischman Monroe *f*
 Furgason & Tabb Shyroch
 Underwriting Co. *fg*
 Garney, Allcut & Weyer
fa

Garvey Jas. W. *f*
 Graff A. M. *f*
 Hamburg H. F. *l*
 Harrison D. S. *f*
 Harrison & Platt *f*
 Henderson R. M. *l*
 Hewson Jas. *a*
 Hochstetler C. E. & Co. *la*
 Hogsett W. R. *f*
 Hughes R. D. *l*
 Hunter, Ridge & Bryant *f*
 Johnson W. B. & Co. *f*
 Jones C. A. *l*
 Jones J. W. *f*

Kinney, Medes & Ran-
 kin Fire Insurance.
 Kumpf H. C. & Son *f*
 Lawrence Milo E. *fa*
 Lockridge J. B. *l*
 Love R. A. *l*
 Lyon H. K. *l*
 McGibbons S. S. *f*
 Merriam H. & Son *f*
 Mill Chas. D. *l*
 Miller J. G. *l*
 Miller W. H. H. *l*
 Moorehouse S. S. *f*
 Motley W. P. *la*
 Muehlischuester & Jaiser *f*
 Munford W. B. *l*
 Munson, Parker & Dufee *f*
 Ninas E. J. *f*
 Potter Eli *f*

WM. H. REED,

General Agent

Phoenix Mutual Life,

New England Building.

Good Territory for expe-
 rienced Agents.

Regan Alex. & Co. *f*
 Rieger & Callahan *f*
 Rodgers Wm. P. General
 Agent Equitable Life of
 Iowa.

Rush J. H. *a*
 Simpson & Groves *f*
 Simpson S. S. *l*
 Stidington & Collins *f*
 Snyder R. M. *f*
 Sutton J. D. *l*
 Swegler Chas. T. *l*
 Tilhoff & Campbell *f*
 Treadway & Snyder *f*
 Treat J. R. *f*
 Weed F. C. *a*
 Webster & Bacon Insurance
 Agency *f*
 Woodward H. F. *f*
 Workman A. D. *l*

KEYTESVILLE

Anderson M. W. *fl*
 Egan J. A. *fl*
 Holcomb M. H. *fl*
 Martin T. J. *fl*

KINGSTON

Jones O. T. *f*
 McAfee Wm. *f*
 Wood William A. *fla*

KIRKSVILLE

Clark W. H. *f*
 Englehart Bros. *f*
 Farrington H. C. *f*
 Halladay & Martz *fl*
 Patterson H. E. *fla*
 Pool J. S. *flg*
 Ross & Hamilton *fl*
 Ross & Lindsay *f*
 Thatcher J. C. *f*

KIRKWOOD

Allen N. H. *f*
 Hough H. W. *f*
 Johnson B. E. *f*

KNOB NOSTER

Case L. F. *fla* *l* *h*
 Knaus J. H. *f*
 Workman S. J. *l*

LA GRANGE

Davis Geo. *fl*
 Hagood O. L. *f*
 Jeddies S. B. *f*
 Pryce Thos. *fla*
 Schneider O. *fl*
 Tate H. P. *fl*

LAMAR

Adams C. B. *f*
 Andrews S. *f*
 Bowling G. E. *f*
 Burton A. M. *f*
 Dye J. M. *f*
 Goodrum C. D. *f*
 Huggins J. T. *f*
 Leech M. A. *l*
 Miller C. M. *f*
 Miller W. J. *fl*
 Rhodes C. B. *f*
 Wills Thad. *f*
 Wray A. J. *flg*

LEBANON

Burley T. B. *l*
 Diffenduffer W. I. *a*
 Draper C. C. *flfg*
 Farris J. W. *l*
 Holt E. C. *fl*
 Newhouse J. L. *fl*
 Stebbins E. F. *fl*

LEE'S SUMMIT

Campbell T. A. *fl*
 Longfellow Geo. N. *fl*
 McDowell H. H. *flflfg*
 White J. C. *fl*

LEXINGTON

Catron & Taubman *fl*
 Chandler T. S. *f*
 Edmonds & Son *fl*
 Gruber G. *fla* *flg*
 Hale R. *fl*
 Hicklin R. A. *f*
 Jesse R. T. *fl*
 Lesueur J. O. *fl*
 Price John *f*
 Russell C. B. *flc* *flg* *flb*
 Trotter R. *l*
 Wilson & Bro. *fl*
 Winsor H. W. *fla* *flg* *fl*

LIBERTY

Corbin B. B. *f*
 Corbin & Dougherty *f*
 Clint Tillery *fl*
 Courtney Wm. J. *f*
 Chandler John T. *f*
 Dougherty Charles *f*

LOUISIANA

Baird P. H. *f*
 Bryson O. C. *fla* *flg* *fl*
 Gorin E. B. & Co. *fl*
 Gray W. O. *fla*
 Hill W. E. & Co. *fl*
 McCuen Ed & Co. *fa*
 Mitchell & Walker *fl*
 Rule E. B. *f*
 Wiseman F. J. *flg* *fl*

MACON CITY

English Bros. *fla*
 Hess Charles P. *f*
 Murphy F. H. *fc*
 Payson D. H. *fla*
 Payson & Wilson *fl*

MARSHALL

Allen & Leonard *fl*
 Boyer James H. *fl*
 Fulkerson W. J. *f*
 Gauldin Martin *la*
 Laurie W. B. *fl*
 Morrow L. M. *l*
 Noble & Wiley *fl*
 Phillips Richard *l*
 Sargeant & Shepherd *flfg*
 Vandyke & Co. *flg*
 Vaughan W. H. *l*

MARSHFIELD

Gray Winslow *fla*
 Thompson J. W. *fla*

MARYVILLE

Crossan G. W. *fl*
 Drennan Geo. L. *a*
 Gillam S. *fl*
 Hawkins W. H. *la* *flg* *fl*
 Herbert W. H. *f*
 Hyslop & Graves *fl*
 McCluskey & Custer *fla*
 McDougall R. L. *fl*
 Montgomery R. C. *fl*
 Phelps D. B. *fl*
 Rowley & Davey *fla*
 Sisson Nat. *fl*
 Smith O. H. *l*
 Toel & Son *flfg*
 Torrence O. P. *a*
 Williams A. *l*

MEMPHIS

Bartlett E. R. *f*
 Cramer R. D. *f*
 Lawton Geo. H. *fl*
 Millican C. S. *f*
 Sanders C. F. *f*

MEXICO

Brooks H. T. *flg* *fl*
 Fowls W. L. *l*
 Guthrie & Gentry *fla*
 Hopkins & Ricketts *fla* *flg*
 Lakenan & Barnes *f*
 Moore & Howell *fl*
 Offut J. C. *f*
 Shea & Waddington *f*
 Steele John J. *f*
 Tucker J. D. *f*
 Williams J. T. *f*

MOBERLY

Boomhower M. J. *a*
 Dyer J. *a*
 Foster, Hogan & Lewis *fa*
 Fort & Sheed *la*
 Hogan Dennis *f*
 Holman & Baird *flg*
 Riegle V. *f*
 Shivel & Morris *flfg*
 Smith H. A. *f*
 Trimble & Bounds *fl*
 Vroom John *f*

MONETT

Badger L. W. *fl*
 Johnston Robert *fl*
 Westbay Harry H. *fl*

MONROE CITY

Bell A. D. *f*
 Davenport D. R. *f*
 Grady J. H. *f*
 Hickman & Stevens *fa*
 Hume N. L. *f*
 Isenheart J. S. *l*
 Laughlin M. W. *f*
 Longmire M. W. *f*
 Melson & Ragland *f*
 Smith J. F. *fl*
 Stewart C. G. *f*

MISSOURI—Con.**MONTGOMERY**

Barnett James D. *ft*
 Basket J. O. *ft*
 Gentry E. B. *ft*
 Gilchrist G. G. *ft*
 Gilchrist W. M. & Co. *ft*
 Hayden F. M. *ft*
 Sharp Samuel T. *ft*

MOUND CITY

Montgomery & Smith *ft*
 Punshow & Kennish *ft*
 Robertson H. K. S. *ft*

NEOSHO

Alexander J. C. *ft & pg*
 Bell Lee D. *ft*
 Oshaum & Withrow *ft & a*

NEVADA

Birdseye & Harris *ft & a*
 Conkling I. W. *ft & a*
 Davis A. B. & Co. *ft*
 Donley J. H. & Co. *ft & l & pg*
 Duren & Son *ft*
 Gilbert Chas. *ft & pg*
 Gilbert Thomas *ft*
 Godfrey & Ferry *ft*
 Lemmon & Chartist *ft*
 Lovel J. A. *ft*
 Murry J. C. *ft*
 Stockard Samuel *ft*

NEW MADRID

Barnes S. S. *ft*
 Garaffio W. N. *ft*
 Mathewson A. G. *ft & h*

ODESSA

Anderson & Cressley *ft*
 Kemper J. A. *ft*
 McChesney W. K. *ft*
 Taylor T. R. *ft & a*

PALMYRA

Austin C. O. *ft*
 Boulware John W. *ft*
 Doherty R. L. *ft*
 Drummond M. P. *ft*
 Kelley E. D. *ft*
 Lane D. O. *ft*
 Lane F. W. *ft*
 Spencer R. A. *ft*
 Smith F. W. *ft*
 Soosey J. M. *ft*
 Thompson George B. *ft*

PIERCE CITY

Allen & Sons *ft & l & pg & sb*
 Essex E. M. *ft & pg*
 Vance & Saunders *ft*

PLATTSBURG

Henry L. F. *ft*
 Hooper W. P. *ft*
 Lyons W. H. *ft*
 Riley W. L. *ft*
 Thomas E. E. *ft & a*

PLEASANT HILL

Clay R. H. *ft & pg*
 Eubank R. B. *ft*
 Mahan P. *ft*
 Young A. W. *ft & pg*

POPLAR BLUFF

Cleolen J. L. *ft*
 Duncan & Horton *ft*
 Heys W. B. *ft*
 O'Bryon J. L. *ft*

PRINCETON

Evans J. B. *ft*
 Kesterson Squire *ft*
 Robinson M. F. *ft*
 Steckman R. W. *ft*

RICH HILL

Clark C. A. *ft*
 Lampkin L. *ft*
 Moore John E. *ft & pg & a*
 Morrison S. J. *ft*
 Payne J. A. *ft & l & h*
 Stonebraker W. C. *ft & a & pg*
 Templeton Geo. *ft*

RICHMOND

Ball & Hamilton *ft*
 Black J. E. Jr. *ft*
 De Masters J. S. *ft*
 Garner C. T. & Son *ft*
 Garner W. H. *ft & a*
 Hamilton & De Masters *ft*
 Hughes C. J. *ft*
 Kirkpatrick R. B. *ft*
 Lavelock & Lavelock *ft*
 McGinnis J. T. *ft*
 Morton John F. *ft*
 Shotwell John W. *ft*

ROLLA

Dowd T. E. *ft*
 French C. E. *ft & a*
 Frost & Jones *ft & a*
 Jones Thos. M. *ft*

ST. CHARLES

Alexander Joseph H. *ft & pg*
 Alferman J. H. *ft*
 Echelmeyer Herman *ft*
 Emmons B. L. *ft*
 Grothe Wm. *ft*
 Kemper Henry *ft*
 Mohr Valentine *ft*
 Runge Albert *ft*

ST. JOSEPH

Andrews & Co. *ft*
 Buckingham H. G. *ft & a*
 Buechle W. L. *ft*
 Briggs J. C. *ft & a*
 Calkins R. R. & Son *ft*
 Calkins Cal *ft*
 Culligan W. J. & Co. *ft*
 Garlich F. A. H. *ft*
 Harris Benj. *ft*
 Hartzell E. F. *ft*
 Holland C. L. *ft*
 Hooper W. F. *ft*
 Hull Jas. & Co. *ft*
 Humphrey Wm. *ft*
 Lancaster J. W. *ft*
 Landis J. C. *ft*
 McGhee & McGhee *ft*
 Martin & Thomson *ft*
 Miller S. F. *ft*
 Owen T. E. *ft*
 Pates L. T. *ft*
 Peteman C. O. *ft*
 Polk Sam'l *ft & a & pg*
 Porter C. B. *ft*
 Quigley J. A. *ft*
 Robinson E. H. & C. N. *ft*
 Schneider U. *ft*
 Tyler J. F. & Co. *ft*
 Wade & Wisser *ft*
 Williams John *ft*
 Wise P. V. *ft*
 Wise Virgil *ft & a & pg*
 Zeidler John L. *ft*

ST. LOUIS

Alexander & Cram *ft*
 Alexander Chas. H. *ft*
 Anderson Wm. E. *ft*
 Anderson Wm. J. Jr. *ft*
 Baker Bros. General Agts. *ft*
 Mutual Life Ins. Company of New York *ft*
 Barnard Sidney L. *ft*
 Barron J. Will *ft*
 Barrows & Karst *ft*
 Bartlett & Miller Fire Insurance, 415 Locust st *ft*
 Bascome, Western & Co. *ft*
 Baum Jos. *ft*
 Becker A. *ft*
 Benton W. P. *ft*
 Berg Nicholas & Son *ft*
 Bersch Ins. Agency *ft*
 Bierman Paul H. *ft*
 Blancke D. J. Fire Insurance, 415 Locust st *ft*
 Block Frank *ft*
 Blossom H. M. & Co. Fire and Marine Insurance, 219 North 3d st *ft*
 Blossom, Windmuller & Kuehne *ft*
 Bogard J. J. *ft*
 Bolin C. D. *ft*
 Bollin A. & Co. *ft*
 Boon Daniel *ft*
 Boon John T. *ft*
 Booth L. F. *ft*
 Bourne R. W. *ft*
 Branch Charles *ft*
 Breck Robert *ft & c*
 Brey William L. C. *ft*
 Bull Wm. Fire Insurance, 100 North 3d st *ft*
 Bull & Garesche *ft*
 Burde C. J. *ft*
 Capen Geo. D. & Co. *ft*
 Carr Chas. Y. *ft*
 Carroll & Powell Fire and Marine Insurance, Chamber of Commerce *ft*
 Case Frank C. Fire Insurance, Chamber of Commerce *ft*
 Churchill J. O. *ft*
 Clark & Gable *ft*
 Clark & Hopkins *ft*
 Collins Martin Son & Co. *ft*
 Coudrey & Scott Fire Insurance, 119 North 3d st *ft*
 Cowan James E. *ft*
 Cox Charles D. *ft*
 Crane Charles L. & Co *ft*
 Crose Chas. C. *ft*
 Damhorst Henry *ft*
 Davis Geo. A. *ft*
 Davis Winchester *ft*
 Delafeld & Snow *ft*
 Denton A. B. *ft*
 Desson F. G. *ft*
 Dines W. C. & Co. *ft*
 Dobson J. W. *ft*
 Dockery Patrick F. *ft*
 Dodge F. S. *ft*
 Donovan D. C. *ft*
 Dowdall J. T. *ft*
 Dreyer R. H. *ft*
 Drury Marshall P. *ft*
 Essex & Waterworth *ft*
 Finney Alexander *ft*
 Fowler Edwin *ft*
 Fowler F. E. & Co. *ft*
 Fraley Moses & Co. *ft*
 Furrer Anthony F. *ft*
 Gardiner C. C. *ft*
 Gerlach William *ft*
 Getz Eli B. *ft*
 Goerts Aug. *ft*
 Goldsmith Meyer Mrs. *ft*
 Gordon J. S. & Son *ft*
 Greenwood E. S. *ft*
 Gross James S. *ft*
 Hall Lee A. Life Insurance, 700 Rialto Building *ft*
 Hall Lee A. Jr. *ft*
 Hayward H. E. *ft*
 Heany T. M. *ft*
 Hendgen Peter J. *ft*
 Hill William L. *ft*
 Hirschberg F. D. & Bro. Fire Insurance, 120 North 3d st *ft*
 Hoerber G. *ft*
 Hoffmann C. H. & Bro. *ft*
 Hoffmann R. A. & Co. *ft*
 Hollister Arthur T. *ft*
 Holmes J. S. *ft*
 Holmes & Kaime *ft*
 Hubbell J. P. *ft*
 Huff, Smith & Hall *ft & c*
 Jackson J. C. *ft*
 Jacobs Adolph *ft*
 Johnson Warren *ft*
 Kalb G. O. & Son *ft*
 Kansteiner A. H. *ft*
 Karst Emile *ft*
 Kaufman Nathan *ft*
 Kehrman S. Jr. *ft*
 Kehrman S. & Co. *ft*
 Kendrick & May Managers Equitable Life *ft*
 Kennedy Samuel G. *ft*
 Kimball Benjamin *ft*
 Kimball T. D. *ft*
 King L. A. *ft*

King Wm. S. *ft*
 Kramer Abraham *ft*
 Lamb Russell F. *ft*
 Lemcke Morris H. *ft*
 Levy & Wolfner *ft*
 Lingenbrink H. A. *ft*
 Lips Alexander *ft*
 Lucas H. V. *ft*
 Maglin & Hollman Fire Insurance, Security Bldg *ft*
 Manning Geo. W. *ft*
 Markham W. H. & Sons Fire and Marine Insurance, 117 North 3d st *ft*
 Marquitz Joseph *ft*
 Maule Evert F. *ft*
 McDearmon T. H. *ft*
 McDowell & Cochran *ft*
 Meeker Clinton G. *ft*
 Meyenburg Gustavus A. *ft*
 Moses A. H. & Co. *ft*
 Muldoon, Terry & Co. *ft*
 Myers & Metc. Life *ft*
 Nathan Edward *ft*
 Noyes William A. *ft*
 Nisbet W. W. *ft*
 O'Flynn Henry *ft*
 Parks A. L. *ft*
 Parks M. F. *ft*
 Peasnet & Hemenway Fire Insurance, 305 Olive st *ft*
 Pierce Samuel C. *ft*
 Powell George W. *ft*
 Raacke Ferdinand *ft*
 Raleigh J. J. *ft*
 Rayold M. J. *ft*
 Ringo E. V. *ft*
 Robb & Ringe *ft*
 Robinson Archie *ft*
 Roeder Frank & Bro. *ft*
 Roeselein Frederick *ft*
 Roeselein & Robyn Fire Insurance, 301 Chestnut st *ft*
 Rowland David P. *ft*
 Rutledge W. D. *ft*
 Salomon S. *ft*
 Schenck G. C. *ft*
 Schmitt Henry *ft*
 Schoppe Jacob L. *ft*
 Semple, Lowe & Lawton *ft*
 Shelton Byron *ft*
 Shepard Wm. H. *ft*
 Sikkema & Priler *ft*
 Simmons C. W. *ft*
 Slater Robert A. *ft*
 Slaughter John B. *ft*
 Small G. H. *ft*
 Snow Robert B. *ft*
 Snow R. E. *ft*
 Snyder F. W. *ft*
 Sperry Isaac D. *ft*
 Stelle W. R. *ft*
 Stewart Wm. C. *ft*
 Stoddard Marshall *ft*
 Stoker Bros. *ft*
 Stone & Westlake *ft*
 Storer Wm. E. *ft*
 Strodtman George W. *ft*
 Strong Bros. *ft*
 Taylor Wm. H. *ft*
 Thaw Charles & Co. *ft*
 Thompson C. L. & Son *ft*
 Tinkham J. *ft*
 Tombridge Frank & Co. *ft*
 Trebus & Kreisman Fire Insurance, Wainwright Bldg *ft*
 Triplett John B. Fire Insurance, 118 North 3d st *ft*
 Tucker J. *ft*
 Vander Lippe P. F. *ft*
 Vizniowski M. *ft*
 Waggoner Sol E. *ft*
 Wall & Whittemore *ft*
 Way John L. *ft*
 Webb Jas. *ft*
 Werth J. E. & Bro. *ft*
 Wilson J. C. *ft*
 Wooster & Benham *ft*
 Young Wm. *ft*
 Zener Mat *ft*

SALEM

Orchard J. M. *ft & a*
 Wingo - *ft*

SARCOXIE

Armstrong C. B. *f l t p g a*
 Boyd H. B. *f*
 Hull F. *f h t*
 McHenry Mr. *l p g f l h t*

SAVANNAH

Allen & Ensor *f*
 Ford Frank *f t*
 Huggens P. L. *f*
 Mercer P. *f*
 Somerville C. C. & Sons *f l a*
l s t

SCHELL CITY

Maring W. F. *f l a*
 Marqens C. S. *f*

SEDALIA

Dodge David M. *l*
 Espenschied A. P. *f*
 Hoffmann F. E.
 Hoffman F. E. & Sons *f*
 Knapp H. N. *f*
 Kuhn Peter *l*
 Landman & Danforth *f*
 Porter Real Estate Co. *f*
 Richardson & Van Antwerp
f a p g l s
 Ritchey Bros. *f*
 Slane W. T. *f*
 Stafford P. G. *f*
 Wasson C. W. *f*
 Williams & Reynolds *f*
 Woodfin M. H. *f*

SHELBINA

Chandler J. S. *f*
 Fields W. F. *f*
 Lyell & Martin *f l p g t*
 Towson J. Wm. *f l t*

SHELBYVILLE

Dale J. D. *f*
 Dimmitt F. *f*
 Lloyd & Humphrey *f l*

: SLATER

Brightwell & Burke *f t p g*
 Gwian T. W. *f l*
 Harvey R. L. *f*
 Herider D. V. *f*
 Lyne S. T. *l*
 Mead S. C. *f*
 Reynolds J. G. *l*
 Rich & Rector *f*
 Sturts & Field *l*

SPRINGFIELD

Dixon J. B. *l*
 Hill L. M. & Co. *f l*
 Hubble Martin J. *l*
 Martin P. H. *f*
 Oldham W. O. *f*
 Ollis A. W. & Co. *f t p g a s*
 Parker & Co. *f s b*
 Pipkin & Bryan *f*
 Porter Richard *f*
 Simmons H. H. *f*
 Whitlock & Mansy *f*

STANSBERRY

Aleshires E. E. *f t s b a c*
 Allcott S. A. D. *a c*
 Duncan R. P. *h i a c*
 McCarty J. H. *f*

STEWARTSVILLE

Clark Ben *f l a l h t*
 Henry L. *f l*
 McDonald T. C. *f*
 Smith Guy H. *f a s p g c s b*
l s h t

SWEET SPRINGS

Ehlers Wm. *f*
 Ferguson John L. *f t*
 Kelley C. *f*
 Kelley C. M. *f*
 Reavis & Prigmore *f t*

TIPTON

Evans J. *l*
 Quigley W. F. *f l p g t*
 Schearer J. *f a*

TRENTON

Bain O. G. *f*
 Burkholder A. H. *f*
 Collier Luther *f l*
 Hill & Conduit *f*
 Kelso S. S. *f*
 Lannis & Proctor *f*
 Linney Robt. T. *f l a*
 Linney W. B. *f*
 Lowen Frank *f*
 Lowen F. W. *f*
 McGrath W. H. *f*
 Pontius Jacob *f*
 Pugh David C. *f*
 Shanklin O. M. *f*
 Taylor Samuel *l*
 Winters G. L. *f*

UNIONVILLE

Bonfoey B. H. *f l a s p g s t*
 Brawford Z. T. *f a*
 Burnham James E. *f l*
 Burns F. A. *f l p g*
 Campbell Isaac *f*
 Davidson S. B. *f*
 Flanagan Liberty *l*
 Lemley E. O. *f*
 McCutcheon L. S. K. *f*
 McKinley J. C. *f*
 Robison Lee T. *f*

WARRENSBURG

Bunn W. H. *f t*
 Crissey & Lemmon *f t*
 Morrow & Morrow *f t*
 Rayhill G. *f*
 Suddath & Jack *f l p g t a*
 Thomson Clifton *l a*
 Wall H. J. *f*
 Williams & Bell *f*

WASHINGTON

Kahmann & Pues *f l a s b t s*
l s
 Thias H. H. *f*
 Wehrman L. *f l*

WEBB CITY

Funk J. J. *f l a c*
 Manker & Chinn *f p g t*
 Tanner B. R. *f l a s p g c h t*

WELLSVILLE

Barker J. *f l t*
 Day & Reece *f t*
 Kempinsky A. *f*
 Shackelford Robert *f t*
 Wise C. P. *f t l*

WENTWORTH

Gareton J. W. *f t h*

WESTON

Anderson J. *f*
 Evans J. B. *f t*
 Jacqueman & Shenkner *f l*

WEST PALMS

Brown Will *f t*
 Canterbury Ben B. *f t*
 Hogan R. S. *l*
 Pardee G. W. & Co. *f t*
 Van Wormer J. L. & Co. *f t*

WINDSOR

Allen & Baird *f t*
 Beedy & Martin *f t*
 Cole H. W. *f l t*
 Violette H. H. *f t*

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Fitzpatrick & Strickfaden *f l*
f s
 Thornton W. M. *f p g*

BILLINGS

Becker E. H. *f*
 Burton Chas. F. *f l p g*
 Campbell Andrew *f*
 Nickey F. H. *l*
 North Austin Co. *f*

BOULDER

Berendes F. C. *f*

BOZEMAN

Culloden F. *f*
 Davis Will *f*
 Gardner E. M. *f a p g*
 Haskins C. W. *f*
 Lindley J. M. *f l*
 Ramsey Geo. L. *f a l p g*

BUTTE CITY

Almon S. H. *l*
 Charwin J. *l*
 Cutler C. J. *l*
 Dugan & Jones *f*
 Eltinge C. S. *f p g*
 Morgan Bros. *f*
 Owen H. E. *f l*
 Passmore & Co. *f l a s*
 Passmore E. P. *f*

Perry & Boardman *f*
 Rickards & Lewis *f p g l*
 Sisley C. S. *l a*
 Smith T. C. S. *f*
 Warfield C. a
 Welch D. J. *f*
 Winters W. H. *l s*

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 Miller Geo. S. *f*
 Scharnikow E. *f*
 Stackpole & Shaubert *f*

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 Collins F. T. a
 Furley J. B. *f l*
 Knuckolls R. B. *f*
 Moore R. J. *f*
 Paul G. T. *f l a*
 Stone A. L. *f*
 Thompson H. J. *f*
 White B. F. *f*

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Cummings & Co. *f l a*
 Miller Chas. E. *f l a*

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 Ramsay J. G. *f*

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Frary W. S. *f*
 Fullerton W. *f*
 Gibson Phil *f*
 Harris Myer *f*
 Jones J. G. *f*
 Joy & Wadsworth *f*
 McNair & Burlingame *f*
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 Wilcox & Rodgers *f*

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 Burke T. H. *l*
 De Lacy Wm. *f*
 Ellis C. F. & Co. *f l a*
 Foote Henry W. *f*
 Hunter Duncan *f*
 La Croix L. *f p g*
 Luke R. A. & Co. *f l a*
 Miller & Lotz *f a*
 Phillips & Brundage *l*
 Poyanski Sol *f*
 Sharpe E. *l*
 Whelpley J. D. *l*
 Winne Peter *f*

LIVINGSTON

Carwile & Co. N. G. *f*
 Dawson W. *f*
 Jones Herbert E. *f*
 McKee Woethy *f*
 Roth M. *f*

Swindlehurst & Grace *f l a*
 Webster F. S. *f l a p g*

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 Courtenay Wm. *f l a*
 Kreidler F. M. *f t*
 Schwartz F. M. *f*

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 Cornish & Tower *f*
 Hoblitzell H. S. *f*
 Jones Thos. S. *f a l c s b l s*
 Low F. D. *f*
 Murray & Musgrave *f*
 Stoddard F. C. *f l a p g*
 Winstanley E. A. *f l a p g*
s b c

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 Brown F. D. *f*

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 Badger B. W. *f*
 Black Powell *f*
 Henessy J. J. *f*
 Wood Jas. T. *f*

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 Paine H. O. *f*
 Rising R. S. *f*

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 Boardman M. B. *f*

Harrigan J. D. *f*
 Harris Bros. *f*
 Kohler August *f*
 Needham & Needham *f*
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 Price J. A. *f*
 Riley Chas. *f*
 Scott P. M. *f*

Thompson & Baker *f t*
 Thompson F. S. *f*
 Weitzel Wm. *f*

ALMA

Billings J. B. & Son *f t l*
 Everson John *f t*
 Porter & Griffin *f t*

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Childs E. S. *f*
 Colvin A. B. *f t*
 Hole Perry L. *f l h t a*
 McDonald J. C. D. *f t*
 Mooney John H. *f*
 Pruitt W. D. *f*
 Sherwood B. F. *f t*

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 Clark W. B. *fl*
 Doorn R. J. *fl*
 Fuller C. W. Jr. *fl*
 Hall S. B. *fl*
 Johnson Thomas *fl*
 Morris J. H. *fl*
 Smith C. E. *fl*
 Wilson T. B. *fl*

ATKINSON

Allison J. Elmer *fl*
 Crossman A. C. *fl*
 Hart A. T. *fl*
 Putnam H. L. *fl*
 Walrath C. H. *fl*

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 Cooper J. R. *fl*
 Dundas Wesley *fl*
 Fablinger Geo. *fl*
 Freeman W. P. *fl*
 Gilmore A. D. *fl*
 Gilmore A. H. *fl*
 Harman W. B. *fl*
 Kelliger W. H. *fl*
 Lambert H. A. *fl*
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AURORA

Bucklin Bros. *fl*
 Day J. M. *fl*
 Farley W. L. *fl*
 Ferguson J. D. *fl*
 Haines & Smith *fl*
 Hellingas W. P. *fl*
 Houseman J. F. *fl*
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 Peterson A. G. *fl*
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Eller H. *fl*
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 Bramer D. D. *fl*
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 Folda Emil *fl*
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 Richards J. L. *fl*
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 Boden J. W. *fl*
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 Pierce J. A. *fl*
 Searle C. H. *fl*
 Stout H. W. *fl*
 Treat C. H. *fl*

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 Dyer Wm. *fl*
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 Bell W. Q. /
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 Ryan C. J. /
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Murphy A. N. *f t*

SIDNEY

De Castro F. H. *f*
Maanly H. J. *f*
McIntosh J. J. *f*

SOUTH OMAHA

Cockrell & Co. *f*
Gainey & Dickey *f*

Gibson L. C. *f*
Gordon J. M. *f*
Hedges E. P. *f*
Hubble E. *f*
Marwell & Freeman *f*
O'Neill T. *f*
Persons & Berry *f*
Shelby & O'Keefe *f*
Sloan & Dowd *f*
Stanley C. C. *f*
Waugh & Westerfield *f*

STROMSBURG

Buckley Pete *f t*
Haskell L. V. *f t t*
Makeever M. A. *f t*
Miller J. M. *f*
Peck B. S. *f*
Scott & Johnston *f t*
Stanton E. E. *f*
Tongue John *f*
Wilson J. A. *f*
Wilson J. W. *f t*
Wilson V. E. *f t*

SUTTON

Bauer Alex. *f*
Clark I. N. *f*
Clark Martin *f*
Crouch L. P. *f*
Dinsmore J. B. & Co. *f*
First National Bank *f*
Grosshaus Andrew *f*
Hairgrove E. E. *f*
King M. C. *f*
Palmer H. E. *f p g*
Thompson R. M. *f*
Woodruff E. W. *f*

TECUMSEH

Carman Orvil *f*
Chamberlain Bros. *f t*
Chapman L. C. *f*
Clark F. *f*
Cowan M. E. *f*
Bofoe Albert *f t*
Harris J. S. *f t t*
Perkins B. F. *f*
Stewart S. S. *f t t*
Woodley C. *f t t*

TEKAMAH

Conkling Chas. W. *f*
Dickinson Chas. T. *f*
Gillis H. Wade *f*
Hennin R. B. *f*
Hopewell H. M. *f*
Lacter Ed. *f*
Peterson E. W. *f*
Thomason A. E. *f*

WAHOO

Anderson Collins & Co. *f t*
Anderson Peter *f t t*
Ball J. W. *f t*
Durgin J. E. *f*
Good & Good *f t*
Guttery W. D. *f*
Kandele Frank *f t*
Lyle & Collins *f*
Sandford C. W. *f*

WAYNE

Alexander G. H. *f t*
Bressler & Dearborn *f*
Burdick F. W. *f*
Cunningham E. *f t*
Feather B. F. *f*
Ferguson A. J. *f t*
Howard W. E. *f*
King J. D. *f*
Laughlin E. *f t*
Main D. C. *f t t*
Mitchell E. D. *f t*
Riley Geo. W. *f t*
Swan B. F. *f*
Tower C. B. *f t t*
Welch A. A. *f*
Wilson H. F. *f*

WEeping WATER

Barnett E. S. *f*
Clark & Howard *f*
Douglas J. E. *f*
Johnson D. M. *f*
King C. H. *f*
Reed Geo. C. *f*
Timblin A. L. *f*
Travis J. F. *f*

WEST POINT

Briggs E. *f t*
Clancy D. W. *f*
Gentzke M. O. *f*
Kloke R. F. *f*
Krause F. E. *f*
Krause W. E. *f*
Meininger H. M. *f*
Peterson R. C. *f t c a*
Rosenthal L. *f*
Rupp C. *f a c p g*
Steuffer Wm. *f*

WILBER

Castor B. L. *f t*
Davis S. D. *f*
Grimm J. H. *f*
Mann W. H. *f*
Safarik P. S. *f*
Spitzer J. F. *f*
Suiter F. M. *f*

WYMORE

Brazil M. *f*
Bridenthal Lake *f*
Burnham C. A. *f*
Byers Jasper *f*
German J. W. *f*
Hoag J. K. *f*
Jaynes H. C. *f*
Kaufmann E. N. *f*

YORK

Bell J. M. *f*
Campbell C. C. *f*
Coddling A. B. *f*
Cowell J. H. *f*
Daggy F. B. *f*
Ferguson H. I. *f*
Huffman Jasper *f l a*
Johnson E. W. *f*
Klinesmith & Dean *f t*
Lundeen N. P. *f*
Moore D. T. *f*
Newman A. J. *f*
Nobes C. J. *f*
Reed Geo. K. *f t*
Snedeker F. M. *f t*
Sovereign M. *f*
White J. D. *f l a*
Wyckoff W. W. *f a*

NEVADA.
AUSTIN

Bank of Austin *f*
Miller J. A. *f l a*

BATTLE MOUNTAIN

Lemaire A. D. *f*

BROKEN BOW

Blackwell W. D. *f h t*
Cadwell Willis *f*
Harris J. A. *f*
Holcomb C. H. *f*
Holcomb W. W. *f*
House E. C. *f a*

Hutchinson J. F. *f l a*
Jones W. H. *f*
Manliet J. C. *f a*
Reneau I. A. *f*
Ruble F. M. *f*

CARSON CITY

Clark Willis G. *f*
Hofer T. R. *f l a*
Kersey & Yerington *f l a*

ELKO

Henderson John *f*
Henley S. M. *f a*

Morrow W. C. *a*
Reinhart Edgar *f*
Smith W. T. *f*

EUREKA

Pardy John *f l a*
Whitmore I. C. C. *f*

GOLD HILL

Blauvelt W. H. *f*

RENO

Bank of Nevada *f*
Bender C. T. *f*
Bender & Fish *f*

Fish H. L. *f*
Martin C. S. *f*
Osborn R. S. *f*
Rule Henry B. *f l a*

VIRGINIA CITY

Edwards & Haas *f l a*
Griffin W. E. *f p g*
Thompson W. G. *f l a*

WINNEMUCCA

Archer E. S. *f*
Chenoweth Chas. *f*
First National Bank *f t*

NEW HAMPSHIRE.
ALSTED

Lovell H. A. *f*
Smith E. M. *f*
Tafts T. *f*

ANTRIM

Baker E. W. *f l a*
Hills C. E. *f*
Jameson C. R. *f*

ASHLAND

Hughes Francis M. *f a p g t*
Wilson James L. *f*

BELMONT

Johnson Frank K. *f*
Ladd E. Gerry *f*
Sargent John M. *f*
Thompson E. P. *f t*

BERLIN

Brooks C. *f a*
Freo F. *f*
Wheeler Fred N. *f p g a*

BRISTOL

Dearborn & Chase *f a*

CHESTER

Noyes J. W. *f*
Webster John M. *f*
Welcomb A. H. *f*

CLAREMONT

Barnes E. S. *f l a p g*
Farwell John L. Jr. *f a*
Richardson S. *f l a p g c s t*
Stockwell Geo. T. *f*
Timson Julius *f a p g t*

COLEBROOK

Drew Walter *f*
Dudley J. H. *f*
Johnson T. F. *f*

CONCORD

Ballard J. H. *f t*
Barrett G. D. *f*
Eastman & Merrill Gen-
eral Insurance Agents
Edgerley F. J. *f*
Foster A. I. & Co. *f a*
Frost N. *f*
Howard D. E. *f*
Jackman & Lang *f t*
Lowell H. *f*
McKellar Geo. A. *f*
Morrill & Danforth *f s t*
Parker Chas. S. *f a*
Stanisla C. E. *f a*

DEERFIELD

Brown C. R. *f*
Chase A. M. *f*

DOVER

Crawford, Tolles & Co. *f l a*
Fernald Frank F. *f*
Foss Everett O. *f*
Grime Herbert C. *f a*
Hartford William C. *f*
Jewell John S. *f*
Leavitt J. W. *f*
Moore L. L. *f*
Prescott George B. *f a*
Redfield Henry A. *f a*
Sanders A. K. *f*
Slak Mrs. Edward J. *f*
Shepard Frank P. *f l a*
Tufts Charles A. *f l a*

Wendell Daniel *f l*
Wood W. *l*

ENFIELD

Currier F. T. *f*
Currier L. W. *f*
Huse E. B. *f a*

EPPING

Brown A. D. *f*
Stickney W. H. *f*

EXETER

Belknap Wm. H. *f*
Cliley Frank L. *f a*
Shute's Ins. Agency *f l a*
Wheeler C. H. *f a*

FARMINGTON

Hayes F. C. *l*
Pitman C. H. *f a*

FRANKLIN

Barnard F. E. *f a*
Bean R. E. *f a*
Leach E. G. *f a*
Marvin Sumner *f*
Stone G. R. *f*

GOFFSTOWN

Colby Geo. W. *f a*
Hazen Fred K. *f*

GORHAM

Evans A. R. *f a*

GREAT FALLS

Beacham J. H. & Son *f a*
Crawford Tolles & Co. *f l*
Harmon Wm. F. *l*
Knapp W. D. *f*

HAMPTON

Norris Abbott *f*
Young Enoch P. *f*

HANOVER

Frost N. A. *f a f g*
Storrs E. P. *f l*

HAVERHILL

Westgate W. F. *f*

HINSDALE

Fay W. E. *l a*
Sabes T. W. *f l*
Temple E. J. *f l*

KEENE

Aldridge G. H. & Son *f a*
Ball Geo. F. *f l s b p g c t*
Donohoe J. J. *f*
Goodnow D. W. *l*
Hayward L. *l*
Perry C. B. *f*
Sayer & Mason *f a*
Wellington L. *f a*

LACONIA

Everett G. H. & W. G. *f l a*
Flanders W. H. *l*
Jewett & Plummer *f*
Melcher & Prescott Agency
f l a p g c s b t
Prescott W. L. *f a*
Rolley John *f a*
Young Fred. A. *f l a p g*

LAKEPORT

Clark S. C. *f*
Melcher & Prescott Agency
f l g

LANCASTER

Nourse & Kent *f l a p g c*
Stevens G. M. & Son *f l a s*
p g c s b

LEBANON

Briggs O. T. *l*
Dewey, Peck & Co. *f l a s*
s f p g c s b
Pike & Cheney *f l a*

LISBON

Brigham S. H. *l*
Dooley Frank *l*
Johnson Edwin L. *l*
Noyes Charles *l*
Whitcher Mrs. Ward P. *f*
Woolson A. A. *f*

LITTLETON

Barrett A. J. *f l a h t*
Buswell C. S. *l a*
Comins B. H. *f a s*

MANCHESTER

Carpenter L. H. *l*
Chase J. F. *f*
Cheney & Cheney *l s b c s*
Clough Lucien B. *f*
Clough & Twombly *f*
Dillon John J. *l*
Dowst John *f*
Edgerly Clarence M. *f*
Elliott A. & Co. *f l a p g m c t*
Everett Wm. G. *f a*
French John C. *f l*
Hadley C. J. *l*
Harmon C. L. *l*
Howard C. H. *l*
Jackson M. A. *s*
Jones D. J. *f a*
Lane Adoniram J. *f l*
Lane John G. *f l*
Molins W. H. *f*
Morgan W. T. *f*
Richardson & Goggin
Fire and Accident Insurance.
Richardson Edwin P. *f*
Rogers T. P. W. *l a*
Sheehan J. A. *f a l*
Smith E. A. *f*

Stearns S. B. *f*
Stevens W. T. *f*
Weeks Geo. W. *f*
Whitcomb C. H. *l a*
Wilson A. P. *l*

MEREDITH VILL'GE

Ambrose D. A. *f*
Peavey Alvin *l*
Rollins S. W. *l*

MILFORD

Kidder & Whitney *f*
Keyes Arthur L. *f a*
Knight C. E. *l*
Knowlton W. M. *f*

NASHUA

Buxton & Crowley *f*
Chandler & Taylor *f*
Cheever W. H. *l*
Clarkson T. H. *l*
Goddard N. W. *l*
Maloon C. L. *l*
McKean & Andrews *f a p g l*
s b
Parker J. B. *f*
Stark John *f*
Taylor M. A. & Co. *f f*
Tuck A. J. *f*
Whitney J. F. *f a l a*
Willoughby H. H. *f l a c a*

NEW BOSTON

Fox E. P. *f*
Marden C. F. *f*

NEW MARKET

Dearborn Geo. L. *f*
Doe C. V. *f t*
Doe Geo. E. *l*
Haines Alanson C. a
Haley Chas. H. *f*
Pinkham E. P. *f l*

NEWPORT

McCrieis *f a*
Woodbury & Pollard *f a c s*

NORTHWOOD

Cotton A. E. *f*
Durgain W. M. *f*
Manning Wm. H. *f*

PENACOOK

Foots Chas. E. *l*
Gage, Buxton & Co. *f a*
Rolfe Abial *f*

PETERBORO

Clark F. G. *f l*
Hatch R. B. *f l a*
White D. M. *f l*

PITTSFIELD

Berry G. F. *f*
Lane E. A. *f l*

PLYMOUTH

Burleigh & Adams *f*
Calley F. C. *l a*
Davis M. N. *l*
Farrin M. A. *f a*
Huckins J. F. *f a*
Leonard H. A. *l a*
Rollins F. H. *f*

PORTSMOUTH

Applebee C. A. *l*
de Rochemont C. M. *f c*
Dodge Samuel *f*
Hazlett C. A. *f*
Isley Wingate N. *f l*
Morse J. P. *f a*
Pender John *f a l p g*
Sise John *f m l a*
Trafton C. E. *f a p g*

RAYMOND

Bartlett John T. *f l*
Dudley Walter J. *f*

ROCHESTER

Beacham & Wentworth *p g f*
l a
Parshley A. S. *f l p g*
Shory S. F. *a*
Smith F. J. *f*

SALMON FALLS

Boyers Chas. *l*
Collins James *l*
Nowell E. S. *l*

SANDWICH

Heard E. M. *f*

SOMERSWORTH

Beacham J. H. & Son *f l*
Crawford Tolles & Co. *f l*
Harmon Wm. F. *l*
Knapp W. D. *f*

SUNCOOK

Bartlett J. G. *f*
Weeks R. M. *f*

WARNER

Davis A. P. *f*

WEARE

Eaton Frank *l*
Getchel L. *l*
Johnson A. B. *f*
Simons Geo. *f*
Whittle J. P. *l*

WILMOT

Langley W. F. *f*

WILTON

Bales G. E. *f*
Ramsey A. A. *f*

WOLFBOROUGH

Beachman John H. *f l*
Parker Chas. F. *f*

WOODSVILLE

Abbott Chester *f a l s p g s*

NEW JERSEY.

ASBURY PARK

Appleby T. Frank *f l a p g s b t*
Braentigam F. C. *f*
Dager M. V. *l*
Gould & Pawley *f l a s c s b*
p g l
Miller W. F. *l*
Pawley F. A. Fire Ins.
Pittenger Geo. W. *l*
Ross Milan *f l a p g t*
Sprague F. T. *l*
White Washington *f l l*

ATLANTIC CITY

Adams Israel G. & Co. *f*
Giberson John P. *l*
Mason J. H. *f*
Stephany August & Co. *f*

BAYONNE CITY

Colville C. M. *f*
Connolly P. W. *f*
Delamater Geo. B. *f l*

Gordon Bros. *f l g*
Johnson J. M. *f*
Murphy Jas. Jr. *f*
Overbeck W. Th. *f*
Roberson Horace *f*
Salter W. D. *f*

BELVIDERE

Burd E. *l*
Carter J. V. *f*
Drake R. T. *f l g*
Hilton T. W. *f l g a t*
Hixson S. *f*
Laire W. R. *a*
Mackey W. M. *f*

BEVERLY

Deivendorf Jacob *l*
Harner J. W. *f l*
Heal Samuel *l*
Keegan S. *f*
Morrell J. T. *f*
Stokes Chas. *f*

Stone E. J. *l*
Thomason E. J. *f*
Vansciver E. M. *f*

BLAIRSTOWN

Bunnell John *f l t*
Lauterman E. L. & U. S. G.
f l

BLOOMFIELD

Bassenger E. B. *l*
Baxter Samuel H. *f*
Baxter Thomas B. *f*
Hayes Thos. E. *f*
Johnson J. Cory *l*
Langstroth T. W. *f l*
Marr Alexander C. *f*
Pierson A. R. *f*
Russell Nathan *f*
Tower Frank G. a

BLOOMINGDALE

Ball Edw. E. *f l*
Ball J. Johnson *f*

Butler N. J. *f*
Roome Wm. *f*
Sloan D. Reeve
Trewetree R. Frank
Ward Jesse *f*

BOONTON

Backer E. A. *f t*
Barrett John *f*
Brown J. L. *f l*
Conklin Wm. *l*
Hammond Enoch *f*
Hopkins C. F. *f*
Kappeler J. R. *l*
Kerr Wm. *f*
Lee J. W. *f*
Lozo G. B. *l*
Van Duyn N. S. A. *f l*

BORDENTOWN

Aaronson R. H. *f*
Burns Wm. *f*
Burr Samuel E. & Son
General Ins. Agents.

N. J., B'd'twn—Con.

Carr A. L. *f*
Flynn Wm. R. *f*
Julian Robt. *f*
Tantum Jas. & Son *f*
Weise F. G. *f*

BOUND BROOK

Brampton R. T. *f*
Dutcher S. *f*
Oakley P. H. *f*
Van Syckle E. *f*

BRIDGETON

Lott Bolton *f*
Moore Wm. J. *f*
Neff Henry *f*
Porch F. M. *f*
Powell Benjamin T. *f*
Reeves James J. *f*
Ware Jas. S. *f*

BURLINGTON

Dobbins Walter A. *f*
Haines H. S. *f*
Holland John *f*
Prickett H. S. *f*
Rigg Geo. *f*
Sloan Charles M. *f*
Smith Geo. W. *f*
Taylor Joshua *f*

BUTLER

Sloan D. Reeve *f*
Ward Jesse *f*

CAMDEN

Cheney John W. & Co. *f*
Cline Wm. *f*
Condit Daniel H. *f*
Fairfield & Jessup *f*
Isard Sam'l *f*
Leeds E. C. & Co. *f*
Lippincott F. C. *f*
McDonald Sam'l *f*
Miller Crawford *f*
Miller R. R. *f*
Nash A. W., Jr. *f*
O'Kane Jos. & Son *f*
Rialay Wallace E. Fire
Ins., 418 Market st
Sharp Chas. H. *f*

CAPE MAY

Edmunds & Stiles *f*
Hughes J. H. *f*
Richardson F. L. *f*

CARLSTADT

Foth H. *f*
Zimmerman Geo. *f*

CLINTON

Trimmer & Smith *f*

CRANFORD

Ferguson James W. *f*
Lent D. B. *f*
Bigelow A. B. *f*
Ely Joseph *f*
Ellis Edgar S. *f*
Seward Clarence *f*

DOVER

Dunham H. L. *f*
Gage C. E. *f*
Hummer D. R. *f*
Smith & Jenkins *f*
Tippett F. H. *f*

ELIZABETH

Brown John *f*
Clark W. A. *f*
Crane J. W. *f*
Denman Alexander S. *f*
Dix J. A. *f*
Egenoff P. *f*
Fulton J. W. *f*
Kierman S. *f*
Lathrop F. C. *f*
Lavery C. G. *f*
Meeker W. H. *f*
Morris A. H. *f*

Noyes C. W. *f*
Ogden B. M. *f*
Price S. D. *f*
Ryan P. J. & W. H. *f*
Trimble C. A. *f*
Welch R. W. *f*
Wolfskeil D. *f*

ELMER

Cochran Abram *f*
Coombs Edwin a
Hitchner R. M. *f*

ENGLEWOOD

Birtwhistle & Huckin *f*
Griedman Henry *f*
Gorham E. A. *f*
Parsons S. F. *f*
Valentine C. W. *f*

FLEMINGTON

Bellis David S. *f*
Berkaw B. H. *f*
Connet & Thatcher *f*
Fell C. L. *f*
Jones John L. *f*

FREEHOLD

Bennett Chas. A. Jr. *f*
Ellis William B. *f*
Lockwood Sam'l A. *f*
McDermott & Mount *f*
Rosell John T. *f*
Ward George F. *f*

FRENCHTOWN

Able H. J. *f*
Hagaman L. D. *f*
Hough J. C. a
Slack Andrew *f*
Slack John L. *f*
Strope Wm. T. *f*
Williams A. P. *f*

GLASSBORO

Allen J. D. *f*
Andrews F. *f*
Beckett M. F. *f*
Dawson R. Q. *f*
Duffield Jos. H. *f*
Imhoff Jacob F. *f*
Keebler G. M. *f*
Pierce John E. *f*

HACKENSACK

Bartoe C. *f*
Church J. C. *f*
Cumming Thomas H. *f*
Debaum A. *f*
Demarest M. *f*
Fosdick W. F. *f*
Fountain Chas. *f*
Martling A. *f*
Sage D. *f*
Taylor Wm. E. *f*
Wortendyke R. W. *f*

HACKETTSTOWN

Bryan Fred H. *f*
Davis Jacob W. *f*
Fisher James *f*
Harvy William *f*
Martin J. Val *f*
Price R. S. *f*
Stephens R. P. *f*
Trimmer A. W. *f*
Trethway William *f*

HADDONFIELD

Bacon Samuel A. *f*
Clement A. W. *f*
Rowancy L. Lewis *f*
Willits S. A. *f*

HAMMONTON

Anderson J. C. *f*
Hill C. P. *f*
King A. J. *f*
Patton J. P. *f*
Pressey G. W. *f*
Rutherford Wm. *f*

HARRISON

Canfield George D. & Sons
McDonald E. F. *f*
Riordan Jos. A. *f*
Van Deren Clarence T. *f*

HIGHTSTOWN

Allen & Stults *f*
Norton J. R. *f*
Pearce Thomas F. *f*

HOBOKEN

Bender F. W. *f*
Renson's Jas. Sons *f*
Bruggman A. M. *f*
Budenbender & Moller *f*
Clinton Charles *f*
Crevier John C. *f*
Harper W. H. *f*
Hersee W. *f*
Heyman H. *f*
Letts Jos. R. *f*
Martin Edward W. *f*
Stack & Logan *f*
Stein & Weidner *f*
Tissot C. A. *f*

JERSEY CITY

Bender H. *f*
Betcher Louis F. *f*
Buckley W. W. & Co.
Fire Insurance, 1 Mont-
gomery st
Emmons & Co. *f*
Foye & Co. *f*
Fessenden R. C. *f*
Gopall T. M. *f*
Lindley H. *f*
Matthews F. *f*
Montgomery W. J. *f*
Muller John E. *f*
Mullins & Cronan *f*
Nelson & Ward *f*
Slater C. H. *f*
Steger & Gopall *f*
Stevens Frank *f*
Van Houten & Sherwood *f*
Williamson T. *f*
Woodward & William-
son Insurance, 17 Mont-
gomery st

KEYPORT

Ogden Benjamin R. *f*
Taylor Marcus B. *f*
Warner David *f*

LAKEWOOD

Bradshaw A. M. *f*
Hudnut C. O. *f*
Marston F. M. *f*

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Life Ins. Co., 258 Broad-
way
Frank & Dubois Insurance,
58 William st
Goble L. Spencer f
Goodridge, Viator &
Co. Fire Ins., 47 and 49
Liberty at
Goulden J. A. Life Ins.,
289 Broadway
Hall & Henshaw f
Hamlin & Co. Insurance
Brokers, Havemeyer Bldg
Hardenburgh John P.
Insurance Broker, 146
Broadway
Haynes Archibald G.
Life Ins., 120 Broadway

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Herrick Harold /
Higgins, Cox & Barrett m
Holway D. U. /
Honig Henry & Son
 Agents, 170 Broadway
Howe, Fos & Co. /
Hull F. B. General Agent
 East River Mutual Ins.
 Co., L. & L. & C. Bldg.
Johnson & Higgins Fire
 Ins., 55 Beaver st.
Kenny & Ratcliffe /
Kohler Frank K. /
Koldhaw, Duffie & Cross
 Insurance, 11 and 13 William
 st.
La Tourette P. F. Fire In-
 surance, 29 Broadway
Leonard Geo. H. Fire
 Insurance, 57 & 59 William
 st.
Lewis J. M. General In-
 surance Agent, 67 Liberty
 st.
Lindley Handford
 General Agent Phoenix
 Mutual Life, 183 Broad-
 way
Lockwood Benoni /
Lowe W. E. Fire In-
 surance, 68 William st.
Mailey John F. /
Miller F. S. /
Mook Charles O. /
Mosenthal H. & Son In-
 surance Brokers, 46 Cedar
 st.
Mumford & Bushnell /
Murray R. I. /
Ohlweiller Adam In-
 surance Broker, 49 William
 st.
Ogden & Katzenmayer
 Fire Insurance, 38 Liberty
 st.
Owens & Phillips In-
 surance, Bennett Building
Parson Fred H. In-
 surance Broker, 34 Pine st
Pate & Robb Fire In-
 surance, 46 Cedar st
Poggenburg H. F. &
Bro. General Insurance
 Brokers, 185 Broadway
Price & Bricklemeyer /
Rail P. O. Fire Insurance,
 45 Pine st
Roosevelt & Boughton /
Sammis W. D. /
Schumann & Ruykhaver /
Scott, Alexander & Talbot /
See A. S. & Depew In-
 surance Brokers, 51 Cedar
 st
Shade Charles E. /
Smith W. H. Jr. /

A. Sondheim & Son,
GENERAL

Insurance Agents,
39 NASSAU ST.

Correspondence Solicited.

Tannenbaum I. Son &
Co. Insurance Brokers,
 92 & 94 Liberty st

TYNBERG & CO.
Insurance,
37 BROADWAY.

Tate & Cornwall Fire
 Insurance, 45 Cedar st
Watlington Thomas Fire
 Insurance, 81 Pine st
Weed & Kennedy General
 Insurance Agents, 50
 Pine st
Wemple & Hutchinson
 Fire Insurance, 59 Liberty
 st

JOHN M. WHITON,
INSURANCE,
32 Pine Street, N. Y.

REPRESENTING
 St. Paul F. & M. Ins. Co.
 British Am. Assurance Co.

Wight L. Allyn m

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Duthe John /
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Murphy James F. /
Trott James P. /
Wilcox W. W. & T. J. /
Wright C. B. /

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Wright C. B. /

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Benedict C. L. /
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Frink C. R. /
Hall & Nash /
Hubbard C. E. /
Merrifield William /
Merriman S. J. /
Miller T. S. /
Ransford W. D. /
Sholes G. W. /

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Whitney B. A. /

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Demarest J. E. /
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Matheson A. /
Matheson H. G. /
Merriman C. A. /
Peirce S. /
Smith A. E. & Son /

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Mandeville W. H. & Co.
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 change Bank Bldg.
Moulton Chas. P. /
Taylor Frank /
Troy Thomas /

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Ferry Josiah E. /
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Ford & Dean /
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Whipple C. P. /

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Merrill W. /

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Cox D. T. /
Elston Irving /
Farrell Thos. F. /
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Hulsebus F. W. /
Leuchter & Milani /
Perry & Co. W. H. /
Perry W. F. /
Sharrett H. J. /
Snedeker L. Jr. /
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Howland & Dutcher /
Hull Geo. D. & Son /
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Seelye Ogden /
Stockton S. D. /
Townsend John M. /
Vail, Sutton & Vail /
Van Kleeck John H. /
Wiltale & Foster /

PULASKI

Clark & Peck *f a p g s b l a h t*
Fuller Geo. H. *l a*
King Don A. *f l*
Parkhurst B. E. & J. W. *f a*
l p k l s t

RHINEBECK

Cramer Wm. *f*
Fellows Geo. *f*
McCarty C. E. *f l a*
McCarty J. C. *f a*
Schryver V. B. *f*
Secor & Son *f*

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Reed J. D. *f*
Tuller M. *f*

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Bagshaw John *f l*
Davis E. W. *f*
Foster Nat. W. & Son *f l a*
Petty Nathan D. *f*
Terrell & Ketcham *f*
Wells Geo. F. *f*

ROCHESTER

Amaden & Spader *f*
Ashley E. F. *f*
Ashton & Malley *f*
Barlow Wm. K. *f g c s b a s*
Bayless Charles E. General Agent Mutual Life,
Granite Bldg.

Beir & Curtis *f*
Bigelow Walter S. *l*
Bobachek E. *l*
Burtia Wm. H. *a*
Bush S. J. T. *l*
Butler & Durkee *a*
Clark M. & Co. *f*
Cook & Arwood *f*
Dewey Charles O. *l*
Dopp & Webster *l*
Douglass J. H. *l*
Dumpleman Stahlbrodt *f*
Durkee & Lewis *a*
Firman, Webb & Webb *f l*
Foster Matt General Agent State Mutual Life,
Central & Western N. Y.
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Hayes W. D. *l a*
Henderson & Kenyon *l*
Hochkins F. D. *f*
Johnson Jas. *f*
Levett & Sweet *f*
Mann F. C. & Co. *l*
Manning Wm. & Son *l*
Meyer Bros. *f*
Moore J. W. *l*
O'Grady Edw. *f*
Pavior Robt. *f*
Prosser J. W. General Agent Penn Mutual Life,
Wilder Bldg.

Reibling A. J. & Son *f*
Sprague G. W. *f*
Vay Rudolph *f*
Ward L. F. & L. S. *f l*
Williams J. M. *f*
Wilson P. S. *f*
Wolff M. E. *f e c p g s b*
Woodwork D. J. *l a*
Zimmer Fred *l*

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Hayden C. T. *f*
Kinney G. W. G. *f l a*
Lewis W. H. *f*
Pulsam K. S. *f*
Roth Bros. *f l m a s p g c s b*
Searies J. H. *f l a*
Shelley & Beasley *f l*

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Eastman F. M. *f*
Hicks Jacob *f*

ROUSES POINT

Corbin John A. *l a*
Myers J. R. *f l m a p g*

SAQ HARBOR

Aldred Richard *f*
Brown Arthur *f g*
Brown C. N. *f*
Biagood T. F. *f*
Christman Carl *l*
Greene W. C. *f*
Kiernan Geo. *f*
Palmer F. H. *f*
Raynor G. C. *f*

ST. JOHNSVILLE

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Sutherland H. L. *f l a s b*

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Crandall W. H. *f l a*
Vreeland E. B. & Co. *f l a*

SALEM

Jackson Charles *f l*
King John *f*
Qua D. V. T. *f*
Stevens M. H. *f*
Thompson Geo. R. *f l a*
Walsh John *l*

SANDY CREEK

Potter Orla S. *f l a c h t*

SANDY HILL

Cross & Ambler *f l a s p g c*
s b t
McCorduck W. A. *f l a*

SARATOGA

Boyle E. O. *f l a*
Browne A. S. *f a*
Dillon J. T. *f*
Hartwell & Shackelford *f l*
a p g s b
Howland O. V. *f l a p g s b s*
Ingham, White & Co. *f l a*
f l a
Sheldon Jennie S. *f*
Searing B. H. *f*
Van Duzen Henry *f l*

SAUQUERTIES

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Butzel's Son Jno. L. *f*
Donlon M. E. *f*
Eckert & Snyder *f a l p g*
Fiero Wm. M. *l*
Hommel P. A. *l s*
Merclon S. W. *f*
Russell J. P. *f*
Whitaker E. G. *a*

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Bauder Frank General Ins. Agent.
Clute Henry *f*
Dennington H. W. *f l a*
Garnsey W. P. & Co. *f*
Juno J. S. *f a*
Kingsbury C. E. *f*
Lanning C. B. *f*
Ramsey Wilfred *f*
Robinson E. W. *f*
Schemmerhorn & Co. *f*
Scott Chas. E. *f l*
Wing Marcus *f l*

SCHOHARIE

Krum Wm. B. *f*

SCHUYLERVILLE

Grippen M. B. *f l t*
Mayhew C. W. *f*
Sheldon Simon *f l a*
Watson Geo. F. *f l*

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Compton G. H. *f*
Gay Albert S. *f*
Hills Wm. *f l*
Jones J. P. *f*
Pollard A. S. *f p g*
Pontius Geo. *f*
Sackett E. S. *f l*
Weatherom S. H. *l*

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Stevens M. H. & Co.

SINO SINO

Howland & Horton *f l a*
Smith Walter *f l a*
Smith W. S. *f l a*
Washburn Franklin J. *f*

SKANEATELES

Durston G. C. *f l a s b s p g*
c l a
Milford Chas. R. *f*
Thorne C. B. *l*
Williamson G. H. *f l*

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Stewart J. W. General Insurance Agent

SOUTHOLD

Clark W. A. *f*
Howell H. G. *f*
Terry J. B. *f*
Terry W. H. *f*

SPRINGVILLE

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Lowe & Spaulding *f a c*
Pierce J. W. *f a*
Reynolds Geo. E. *f a c*

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Gorden T. H. & Son *f*
Keutgen Bros. *f*
Parkinson & Anderson *f*
Robinson W. *f*
Stake, Albert & Co. *f*
Stake Wm. *f*
Wermerskirch & Cosman *f*

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Bacon S. Brooks *f*
Bagg Stanley *f*
Bowen & Perry *f a m s p g*
s b t
Brockway & Bachman *l*
Brown Edw. *l*
Buley Judel E. *l*
Carlisle J. H. *l*
Carpenter John M. *f*
Childs E. Gates *l*
Clark Milton & Co. *f*
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Crittenden Wm. R. *a*
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Dopffel Wm. *f l*
Dow & Behm *f l*
Doxxes A. E. *f*
Foss W. H. *l*
Fowler C. A. *f*
Freeman E. L. *l*
Gore David M. *a*
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Hanchett M. W. *f*
Hindle A. W. *l*
Howe Albert B. *l*
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Jones O. G. *l*
Jones & Baker *f p g s b*
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Larrabee Geo. *l*
Maynard G. C. *l*
McGuire C. M. *f s*
Meldram J. J. *l*
Merrihew A. B. *l*
Meyer I. M. *l*
Miller C. B. *l*
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Phillips Henry I. *l*
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Schmelze D. & Co. *f*

Short F. F. *l*

Short J. F. *l*

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Spring J. F. *l*

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Tallman J. B. *l*

Trusair T. S. *f*

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Visscher J. B. & Son *f*

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Burnett H. C. *f l k s*

Carr John W. *f l a s b t*

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Moffatt F. H. *f l*

Stake Albert & Co. *f*

Wermerskirch & Cosman *f*

Wood J. H. *l*

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Heppworth & Trimble *f l a*

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l a m

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Haines Geo. N. *l*

Joline Mrs. C. A. *l*

Noon Phebe *l*

Williams Benj. *l*

Yetman H. R. *f*

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Boardman D. L. & Son *l*

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Carner E. E. *l*

Carpenter Jas. H. & Co. *f*

De Long J. H. *f*

Fromman A. J. *f*

Geer Gilbert Jr. & Co. *f*

Greene C. O. *l*

Hawley & Co. *f*

Hines P. *l*

Hoag Levi *l*

Kennedy W. S. *f l a m p g c*

Knox & Mead *s b s*

Macdonald & Co. *f*

Mesing M. *f*

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Van Alstyne & Harrington *f*

Weatherby & Wilbur *f*

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Austin Wm. *f*

Hunt R. J. *f l a*

Seymour E. C. *f*

Smith A. B. *f l a*

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Mersereau D. S. *f l a*

Mersereau E. C. *f*

Whitney H. L. *f*

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Carr & Dixon *f.l.a.*
Clark A. B. & Son *f*
Crandall J. S. *l*
Costigan F. P. *l*
De Voll W. G. *l*
Ferguson Leta M. *f*
Gardner Abner *l*
Geer Giles *l*
Graff Fred *l*
Green G. W. *l*
Harter W. G. & Son *fl*
Hopson Henry *f*
Horn H. V. D. & Son *f*
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Thomson M. G. *f*
Thorn Chas. H. *l*
Trevett Edw. *a*

Turnbull J. B. & J. M. *f*
Williams Rees G. *l*

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Richardson James *l*
Sloan W. D. *f.l.a. l t p g*
Stephenson J. M. *f*

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Cole F. S. *s. f.a.*
North & Pond *f.l.a. p g*

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Johnson De Wirt *f.l.a.*
McClure J. O. *f.a.*
McConnell W. H. *f.l.a.*
Owen E. H. *f*
Reid James E. *f.l.a.*

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Sanford John W. *f*
Van Duser Wilson W. *f.a. l*

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Bull D. C. & Co. *f*
Dennis W. A. *f.m. a s b*
Huested J. *l*

WATERLOO

Burrall W. D. & Son *f.a. s p g*
Clark John L. *l*
Hulbert Geo. H. *f*
Marshall Horatio A. *f*
Opdyke Chas. E. Jr. *f*
Thorn Chas. H. *l*

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Baker Frank L. *f.l.a.*
Beebe & Shepard *f*

Bonney E. J. *l*
Chittenden T. C. *f.l.a.*
Clark W. R. *f*
Munson & Seaver *f*
Otis & Goodale *f*
Pawling John R. *f*
Wilcox O. S. *l*

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Fuers L. P. *f*
Goodwin S. W. *f*
King & Harter *f*
Monroe C. Wilber *f*
Race W. L. *a*
Weller W. H. *f*

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Miller I. H. *l*
Pearson W. F. *l*
Pellitt & Skiff *f.l.a.*
Smith H. L. *f.l.a.*

WAVERLY

Brooks & Hoagland *f.l.a.*
Hallett & Son *f*
Lyford F. E. & Co. *f*
Snook F. M. *f*
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Hanks S. F. *f.l.a.*
Kendall W. C. *f.l.a.*
Macken C. B. *f*
Norton J. S. *f.l.a.*
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La Due Jerome *f*
Ottaway A. B. *l*
Parsons Clarence *fl*

WEST LEBANON

Fowler Warren *f.l.a.*

W. NEW BRIGHTON

Simonsen S. D. & Co. *f. p g*

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Bascom W. F. *f.l.m. a*
Doren James *f*
Earl John C. *f.l.a.*

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Ford W. W. *f*
Foster Howard E. *f*
Hopkins E. T. *f*
Huestis W. H. *f.l.a.*
Levinson Clarence *f*
McCabe J. D. *f*
Read John *f*
Sweeney John R. *f*
Tibbits Wm. B. *f. p g*

WHITESTONE

Powell Edwin *f*
Toff Oliver *f*
Whitmore E. B. *l*

YONKERS

Bellows & Warren *p g*
Chadesayne Chas. L.
Chadesayne Geo. C. *l*
Cobb Rafael *f*
Cobb & Wheeler *f*
Garrison & Back *f. p g*
Jenkins & Simpson *f.l.a. p g c*
Newman C. W. *f. p g*
Shorey C. A. *f*
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 Scott Bros. *f*
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READING

Gertz Gus A. *l*
 Schenck J. C. *f*
 Vorjohan F. H. *flac*

RIPLEY

Armstrong W. H. *fla*
 Jolly S. F. *l*
 Linn Carl *l*
 McClintock W. C. *fa*
 Moore W. A. *f*
 Shaw F. F. *f*
 Winters J. C. *f*

SALEM

Boyle Homer C. *flta*
 Hanna E. E. *flta*
 Heaton Rollin B. *flit*
 King A. J. *f*
 Vernon & Daggett *flit*
 Young M. L. *flta*

SALINEVILLE

Kirk W. F. *flgtla*
 McFadden J. *flgtlmal*
 Skinner W. A. *f*

SANDUSKY

Boslaw G. R. *fla*
 Davey J. A. *f*
 Davis & Wagenet *f*
 De Allen P. *f*
 Dehnell H. *fla*
 Drake Thos. J. *f*
 Falk J. A. *f*
 Gerold Theodore *fla*
 Giedeman John *f*
 Hunter J. A. *f*
 Ingold Gottlieb *f*
 Layman F. A. *f*
 Lockwood Lane S. *l*
 Miller H. *f*
 Mills Isaac *l*
 Parker F. F. *l*
 Prout A. W. *l*
 Spencer T. F. *fltas*
 Traub John *f*

SHELBY

Hildebrand W. H. *f*
 Sonenstam W. F. *f*
 Wentz Henry *pg*
 Williams J. W. *f*

SIDNEY

Anderson G. C. *fla*
 Barber W. H. *fla*
 Barnes J. H. *f*
 Cochlin D. *f*
 Curd J. W. *f*
 Dickas C. H. *f*
 McCune J. G. *fla*
 Moreland W. H. *f*
 Pfadt L. *fa*

OHIO, Sidney—Con.

Pruden D. *fl*
 Skillen W. A. *l*
 Studevant L. M. *f*
 Wyman W. C. *f*
 Yokam N. *fl*

SPRINGFIELD

Baker & Hayward *fla*
 Billows & Olds *falgst*
 Brooks H. M. *fla*
 Brown J. A. *flit*
 Burk T. W. *fa*
 Clingerman J. B. *l*
 Coles Chas. A. *flasp*
 Considine M. D. *fla*
 Elliott J. S. *flasp*
 Heffelfinger J. E. *l*
 Knight Geo. H. *l*
 Link Joseph *f*
 Linn M. F. *f*
 Lothschutz Peter *f*
 McCalm A. T. *l*
 Moffat Bruce *f*
 Moffett Rod W. *l*
 Parsons J. W. *l*
 Showers H. S. *f*
 Wallace & Corry *falgab*
ls

STEUBENVILLE

Ault J. C. *f*
 Beckett & Co. *fmga*
 Fickes H. H. *fa*
 Flanagan C. E. *fl*
 Gescheider Max *f*
 Maxwell J. S. *f*
 McCracken John & Son *fla*
ggc
 Powers J. M. *fl*
 Trainer Wm. *f*

SYRACUSE

Bartels Wm. F. *f*
 Bridgeman L. H. *fl*
 Bridgeman O. N. *la*
 Hess R. S. & Co. *f*
 Shaver J. W. *la*

TIFFIN

Brohl Henry *f*
 Brown R. W. *f*
 Brundage M. H. *l*
 Coup W. C. *f*
 Distelkorst Aug. *f*
 Drake R. B. *l*
 Flack Edgar B. & Co. *f*
 Lyle Olive *fg*
 Morrow Bros. *fl*
 Noble B. M. *fg*
 Scheibley W. W. *f*
 Schneckenberger P. M. *f*
 Stevens Wm. *fa*

TOLEDO

Armstrong Chas. M. *f*
 Arndt D. M. *l*
 Bachus S. R. *f*
 Barker & Frost Fire Insurance, 411 Madison st
 Benckenstein L. F. *f*
 Bowers J. D. *f*
 Bralley Jas. S. *fl*
 Braun V. *f*
 Brown L. W. & Co. *l*
 Brush Martin V. *f*
 Burr J. A. & Co. Fire Insurance, Bee Building
 Campbell A. F. *l*
 Caniff Gilbert *f*
 Colton A. F. *f*
 Cole & McVean *f*
 Cory L. A. *a*
 Crabbs W. C. *f*

Curtis C. Locke *l*
 Czarnacki Chas. *f*
 Dawson H. H. *f*
 Declan Allen's Sons *f*
 Detwilder I. H. & Co. *f*
 Dodge F. H. & Co. Fire Ins., Produce Exchange
 Duffey J. A. *l*
 Elderkin J. K. *f*
 Farrar W. J. *la*
 Fey Geo. *f*
 Forbes O. A. *f*
 Haynes Harry *fl*
 Herrick & Jacobi *f*
 Hobbs W. R. *f*
 Hogue F. K. *f*
 Hunker A. H. *f*
 Irving John D. & Co. *f*
 Jones & Co. *fm*
 Koschland C. K. *f*
 Kountz John S. *f*
 LaBarre J. E. *f*
 Manahan C. W. Jr. *f*
 McAfee John P. *la*
 McMahan A. & Co. *f*
 Merrill, Jackson & Ketchum Fire Insurance, The Nasby
 Metler J. F. *f*
 Nickols F. C. *l*
 Palford & Thomas *l*
 Parsons J. E. *fl*
 Peckham Elijah W. *l*
 Pomeroy & Chafin *f*
 Quigley E. *l*
 Richardson I. A. & Son *f*
 Ricking C. H. *l*
 Schmidt Theo. & Co. *f*
 Shaffmaster & Baker *f*
 Sheppey Marshall *f*
 Smith L. *f*
 Stahl G. E. *f*
 Sullivan & Hubbard *fm*
 Tanner Frank C. *f*
 Trowbridge S. A. *l*
 Tucker T. B. *l*
 Valois E. L. *l*
 Van Hoosen F. E. *l*
 Waterman G. W. *f*
 Whitaker W. H. *f*
 Wright & Russell *f*
 Wylie A. K. *l*

TORONTO

Porter Frank *f*
 Smith H. H. *falg msc*
sb

TROY

Baer C. T. *a*
 Carr C. G. *f*
 Clinehens P. R. *l*
 Culp N. G. *f*
 Green George *fl*
 Martin J. F. *f*
 McAnally & Co. *flis*
 McConnell G. R. *f*
 McDaniel Wm. *l*
 Myer Geo. *f*
 Smith D. W. *f*
 Snyder E. C. *f*
 Speagh L. L. *a*

URBANA

Blake & Dye *fl*
 Blase D. *l*
 Berry Lou C. *fl*
 Boaler S. *l*
 Carter J. S. *f*
 Dittz J. W. *fl*
 Dixon B. F. *la*
 Gallagher Michael *f*
 Geiger L. *f*
 Geiger & Banta *f*
 Hearn James *l*
 Hunter John *fla*
 Kiefer C. C. *l*

McCracken & Son *flga*
 Moore J. C. *a*
 Patrick W. K. *a*
 Ross Albert *f*
 Ross C. A. *f*

URICKSVILLE

Clemens U. S. G. *fl*
 Demuth I. E. *f*
 Foster H. *f*
 Loeb & Collins *flalst*
 Parish E. A. *f*

VAN WERT

Augustine J. Q. *lape*
 Cox A. W. *fl*
 Hoke C. V. *la*
 Kear W. M. *flit*
 Long & Wappner *fa*
 Purmort Bros. *flap*
 Swartout O. D. *fl*
 Wilson Geo. W. *l*
 Walcott & Walcott *falgst*
csb

WADSWORTH

Clark John A. *fl*
 Daykin J. W. *fl*
 Kremer J. C. *flis*

WAPAKONETA

Freyman & Rostorfer *f*
 Heinrich Wm. F. A. *f*
 Settlege H. C. *f*
 Schmidt & Hossemer *f*

WARREN

Adams Whittlesey *flac*
sb
 Burnett & King *fla*
 Clapp & Barnes *fl*
 Hoffman C. F. *a*
 Swager James M. *f*
 Swager W. B. *l*
 Waldeck Henry *f*

WASHINGTON C. H.

Baird E. A. *l*
 Cave C. A. *fl*
 Edge J. A. *flap*
 Dial & Sullerton *falg*
ls
 Ramsay E. A. *l*
 Sperry & Devlin *fl*

WAUSEON

Barber Ed L. *la*
 Brigham C. E. *f*
 Greiser & Son *fl*
 Heath & Blizzard *flap*
 Mosley H. L. *f*

WELLINGTON

Binehower Joe *flahs*
 Bush & Sterick *fla*
 Goodwin R. M. *fla*
 Rust Geo. *l*
 Sage C. & Co. *fla*

WELLSTON

Austin W. A. *flap*
 Evans W. L. *flap*

WELLSVILLE

Arnold C. R. *fl*
 Hamilton J. Q. *flmga*
 McGregor Chas. *l*
 Riley J. W. *fg*
 Smith A. G. *f*
 Steward Jacob *f*

WESTERVILLE

Bale J. H. *fl*
 Bender D. *l*
 Major S. F. *f*
 Miller C. W. *l*
 Rank & Merchant *fl*
 Seeley C. L. *f*
 Seeley D. S. & L. *fl*
 Seeley C. Leland *f*
 Weinland J. A. *f*

WILMINGTON

Austin C. W. *l*
 Carroll John *fl*
 Cartwright Isaac T. *flta*
 Sanderson A. M. *fl*
 Sayres R. S. & C. C. *fl*
 Walker H. F. *fl*

WOOSTER

Adams C. *f*
 Barrett John F. *f*
 Fanc Daniel *fl*
 Howard Ned *flast*
 Myers W. C. & Co. *fap*
 Schuck F. *f*
 Van Nest *f*

XENIA

Allison Wm. *l*
 Armstrong H. C. *f*
 Armstrong J. S. *l*
 Bloom Wendel *f*
 Carey John C. *flta*
 Farrell Henry *f*
 Hanes Luther *f*
 Hebble J. W. *f*
 Hoffer Harry *fla*
 Hooven E. P. *fg*
 Hypes S. H. *f*
 Logan C. F. *fap*
 Lytle Robert *fl*
 Matthews J. H. *ls*
 Milburn J. M. *l*
 Merrick C. R. *l*
 McGerry & Lesourd *flit*
 Schell F. J. H. *l*
 Williams D. B. *a*

YOUNGSTOWN

Cornelius Wm. *l*
 Davis John R. *flg*
 Deible & Son *l*
 Edwards J. Howard *flga*
 Guthman Leo *l*
 Hellawell Allen *flg*
 Hood & Osborn *flap*
 Hubler Abraham & Son *f*
 Johnston Taylor *fl*
 King Hugh *f*
 Liebman Louis *flap*
 Mattison C. F. *f*
 Miller Peter *fl*
 Parfitt Jas. *f*
 Rice, Haney & Medbury *fl*
ap
 Rudge Geo. & Son *f*
 Sharmar R. R. *la*

ZANESVILLE

Amer A. E. *fla*
 Atwell Bros. *fl*
 Brown Geo. *f*
 Dillon E. F. *flap*
 Dillon A. H. *fla*
 Dodd Jno. H. *f*
 Finley & Helmick *f*
 Gray Wm. & Son *f*
 Guthrie W. E. *f*
 Hahn & Nant *flap*
 Mershon R. S. *l*
 Miller Henry *l*
 Palmer Addison *flap*
 Sharpe H. A. *l*
 Steiner John *fl*
 Varner F. M. *f*
 Worrell Louis *l*

OKLAHOMA.

OKLAHOMA CITY
 Dougherty A. B. *l*

Harrell J. B. *l*
 Overholser L. & Co. *flga*

Shepherd & Blackwelder *fla*
 Upshaw T. M. & Co. *fla*

Wells W. C. *l*

OREGON.

ALBINA

Felter F. S. /
Thompson M. E. /
Wiborg A. W. /
Young A. W. /
Young Eli /

ALBANY

Burkhart G. /
Dalrymple O. H. /
Gradwohl J. /
Hulburt H. /
Marshall Pres. B. /
McPherson W. E. /
Merrill H. F. /
Pipe J. V. /
Powell J. C. /
Senders M. /
Senft J. W. /
Steele S. N. /
Talt J. M. /
Winn C. B. /
Writsman J. O. /
Wyman D. T. /

ASHLAND

Atkinson & Carter /
Billings G. F. /
Farlow E. J. /
Hasty Frank /
Squire W. P. /

ASTORIA

Allen A. V. /
Case J. W. /
Keen & Cook /
Parker W. W. /
Robb & Parker /
Sanborn G. W. /
Van Dusen B. /
Van Dusen & Co. /

BAKER CITY

Blake E. H. /
Ferguson Jas. F. /
Heilner S. A. /
Palmer C. L. /
Porter J. F. /
Steffen E. C. /
Sturgill J. L. /
Tracy G. H. /
Waring E. F. /

BAY CITY

Budgeford J. H. /

CORVALLIS

Beach L. E. /
Bermin D. /
Caulstrom Jas. /
Gibson R. E. /
Hastless & Davison /
Hays S. L. /
Jacobs M. /
Jeffreys S. T. /
Job Z. /
Johnson F. M. /
Kline S. L. /
Quivey G. W. /
Spaulding Chas. /

Stock M. & Co. /
Taylor E. H. /
Wells W. A. /
Woodcock M. S. /
Yates W. E. /

DALLAS

Stouffer D. P. /
Turner R. R. /
Woods Frank /
Wright W. P. /

EUGENE CITY

Condon S. W. /
Craw Geo. F. /
Dorris B. F. /
Eakin S. B. /
Hovey, Humphrey & Co. /
Lake E. C. /
McClanahan E. J. /
Miller G. M. /
Walton J. J. /
Wilkins F. M. /
Woodcock A. C. F. /
Yoran D. E. /

HILLSBORO

Brock W. E. /
Knight J. L. /
Merriman J. D. /
Morgan & Barnard /

INDEPENDENCE

Connaway W. P. /
Cooper J. S. /
Douty F. A. /
Goodman A. J. /
Hirschberg H. /
Hurley A. M. /
Kirkland J. W. /
Lines H. M. /
Murphy W. H. /
Smith Geo. A. /
Tatom James /
Wheeler W. H. /

JACKSONVILLE

Boyer J. A. /
Colvig W. M. /
Day S. J. /
Kenney T. J. /
Kuhn K. /
Love George M. /
Muller Max /
Nunan J. /
Nickell Chas. /
Reames, White & Co. /
Solise A. N. /
White John F. /

McMINNVILLE

Apperson E. C. /
Briedwell E. M. /
Hobbs J. W. /
Kratz A. A. /
Rhodes & Rhodes /
Stout D. /
Talmage C. W. /
Vinton W. T. /
Wortmann J. /

OREGON CITY

Califf S. B. /
Charman Bros. /
Charman F. R. /
Donaldson F. E. /
Dye C. H. /
Jones Herman /
Johnson W. C. /
Kelly H. L. /
Latourette D. C. /
Rands E. M. /
Ryan T. F. /
Sladen H. T. /
Thayer & Allen /
Williams C. O. T. /

PENDLETON

Clopton & Boyd /
Forman S. /
Hartman Abstract Co. /
Hendryx N. /
Howard, Lathrop & Co. /
Jackson-Dickson Co. /
Livermore Lot /
Rosenberg George P. /
Sharon Ed. E. /

PORTLAND

Ackerman Henry /
Bates Philip S. /
Bowman B. H. /
Boyd & Arnold /
Briggs C. F. /
Bruce W. J. & Co. /
Carr & Goldsmith /
Coulkin G. E. /
Child Chas. J. H. /
Church & Hoelding /
Clayton & Oliver Co. /
Cohen Benj. I. /
Colton H. G. General
Agent Mass. Mut. Life,
Chamber of Commerce
Compton & Montague /
Connell, Hirstet & Thomas /
Davis Jas. E. & Co. /
Denholm Wm. /
Doach H. E. /
Estes J. A. /
Everett & Co. /
Fay C. L. /
Farquhar & Co. J. W. /
Fields C. E. & F. S. /
Folger H. Manager New
Zealand Ins. Co. /
Frank A. S. /
Frost E. C. /
Gartner A. F. /
Gayman & Bates /
Goldsmith Bros. /
Grant H. M. /
Hall Edward /
Harker A. E. /
Hart Frank E. /
Hewett Henry & Co. /
Hughes C. E. /
Hunter Henry /
Hunter W. J. /

Jones L. C. /
Kady M. T. /
Kelly John /
King & Wilson /
Laidlaw James & Co. /
Lockwood & Son /
Manefee R. E. & Co. /
Mathena & Son /
McFarland & Clemens /
Mead & Diamond /
Morgan Chas. E. /
Morse & Breyman /
Munford S. E. /
Page John H. Manager
Equitable Life of N. Y. for
Oregon and Southern
Idaho, Oregonian Bldg.
Palmer W. D. /
Parkhurst A. L. /
Patterson & Adams /
Plumpton & Waits /
Quackenbush E. /
Reed Jas. S. /
Riggins S. B. & Co. /
Roberts & West /
Rohr Grant L. /
Rosenblatt Gus /
Russell, Macleod & Blyth /
Sherman & Harmon /
Sibray & Sibray /
Story Geo. L. /
Street Wm. H. /
Sutton & Beebe /
Taylor Geo. Jr. /
Telfer-Stearns Real Estate
Co. /
Thayer F. E. /
The Clayton & Oliver Co. /
Thompson L. E. & Co. /
Vogt F. W. & Bro. /
Wagner P. A. /
Wells J. L. & Co. /
West W. H. /
White Eugene D. & Co. /
Young Eli /

ROSEBURG

Brush & Benjamin
Carle Z. D. /
Caro Bros. /
Deer R. P. /
Floe S. F. /
Lane John /
Marks Herman /
Moore W. N. /
Rapp M. N. /

SALEM

Beeler Geo. M. /
Boise & Barker /
Booth John C. /
Cottle H. W. & Co. /
Dumars Wm. /
Gilbert Bros. /
Mitchell J. L. & Co. /
Payne John M. /
Spalding E. P. /
Willis Leo /
Wright John G. /

PENNSYLVANIA.

ALLEGHENY

Drum Simon & Son /
Green C. M. /
Lang E. G. /
Pearson & Kirschler /
Stewart Geo /
Tomb H. M. /
Waldschmidt Fred /
Weitershausen Chas. R. /

ALLETOWN

Bourne & Durham /
Eckert Miles L. /
Grubb & Medlar /
Hardner Geo. H. /
Hartzell F. K. /
Hecker & Delong /
Hoats Samuel /

ALTOONA

Clingman John /

Kramer J. A. /
Kleckner Henry T. /
Kratz D. H. /
Lee A. W. /
Leisenring & Walker /
Miers W. D. /
Mohr W. K. /
Ramsay John L. /
Ritter & Yeager /
Sepp John W. /
Troxell N. L. C. /
Vingling H. B. & Son /
Webb James W. /
Weidner M. S. /
Wilt F. R. /

Cole T. B. /
Crouch & Morgan /
Forney E. S. /
Greene F. M. /
Hicks W. B. /
Huff H. B. /
Ickes S. R. /
Ickes J. W. /
Johnson Robt. /
Kerr R. A. O. /
McDonald Bros. & Co. /
McMullin C. /
Piper C. M. /
Rink Jacob /
Schneider F. L. /
Stinson & Eneyart /
Trout Thomas J. /
Winn & Nicholson /

ASHLAND

Barron Theo. F. /
Burkett E. P. /
Cramer Charles /
Garner John C. /
Garner Lin /
Leisig Jacob /
Ryan James /

ASHLEY

Fenner J. K. P. /
Hoyt J. R. /

ATHENS

Canfield C. W. /
Fuller G. L. /
McMahon J. P. /
Tidd C. W. /

1860.

1894.

HOME LIFE INSURANCE COMPANY OF NEW YORK.

PAID POLICYHOLDERS

ASSETS, JANUARY 1, 1894.

\$15,650,795.88

\$458,206.79

THREE FACTS.

STRONGEST.—Has the largest percentage of assets to liabilities.

BEST MANAGED.—Realized the largest percentage of interest on its assets

MOST PROFITABLE.—It has paid the largest dividends to its policyholders.

Men of character and ability desiring to connect themselves with this excellent company, can secure an unexcelled contract by addressing

H. B. MOESER, MANAGER,

Western Pennsylvania and West Virginia Agency,

531 WOOD STREET, PITTSBURGH, PA.

PENNSY'NIA—Con.

BANGOR

Grubb & Speer
Jones M. H. l

BEAVER

Anderson & Woolslair f la
pg ht
Carothers J. R. l
Henry Samuel l
Sloan M. B. f a l pg cl ht

BEAVER FALLS

Alford John f
Bricker W. H. f
Chidsey & Weston f l
Hamilton W. M. f la
Knight M. L. l
Leyde A. R. f
Merriman J. F. f
Ohnsman J. H. f
Pangburn N. H. f
Rayl W. B. l
Reeves John f
Strock J. D. f
Stone J. P. f

BEDFORD

Earnest & Horne f la
Moore Walter F. & Co. f la
Reed & Jacob f la

BELLEFONTE

Fleming W. J.
Harper J. C. l
Harnsberger H. A. f l
Musser W. H. l
Potter Geo. L. l
Rankin W. B. f l
Smith Chas. f la
Weaver J. C. f l
Woodcock J. A. l

BENNETT

Isensee Wm. f
Rheam John E. Jr. f
Saloman Geo. f
Sample H. E. f
Sheppard W. V. f
Young W. A. f

BERWICK

Evans J. W. f l pg a ht
Jacoby J. G. f l pg a ht
Shuman A. E. f l pg

BETHLEHEM

Bachman P. S. f
Borhek M. A. f
Brauner R. J. l
Cope A. L. f
Eckert Miles J. f
Faust Jas. f
Fradneck Theo. O. f
Friebley D. W. f
Graham Alexander f
Gromen H. A. f
Gross W. H. S. f
Hartzog I. T. f la pg

Hess Geo. K. f l

Kresge James H. f
Lilly W. S. l
Leibert Jos. M. f
Leibert Richard W. f
Ott R. J. & Son f pg c sb a
Pearson A. F. f
Snyder & Bieber f l pg
Wolfe & Kemmerer f

BIRDSBORO

Harrison W. f
Slepp John W. f
Yocum G. M. f
Young W. K. f

BLAIRSVILLE

Allison Bros. f a pg t cl
Cunningham & Co. f pg t l
la
Johnson Jas. H. f l

BLOOMSBURGH

Knapp C. F. f
Lutz Chas. B. f a c pg sb t
Lutz M. P. f
Maize J. H. f l
McKelvey C. Watson f
Sternor Geo. W. l
Vetter C. C. l

BRADDOCK

Aten T. G. l
Clementson Geo. H. f
Holland W. A. f
Holzman L. F. f
Householder J. & Son f la l
Mills J. K. f
Oskin Wm. f
Rinard & Williams f
Sexton E. G. l
Stroup D. l
Stokes C. A. f

BRADFORD

Bauer Robert f a l pg
Cody E. V. a pg sb t
Funk G. W. f
Groves Fred W. f la pg
Kennedy C. H. f la

BRISTOL

Adams Geo. W. l f
Gilkeson A. Weir f
Kinsey Wm. f
Scott Chas. E. l
Stuckert John C. f
Thomas J. O. a

BROOKVILLE

Brown John F. & G. E. f la
Cranford S. R. l
Hoelsche H. J. l
Pinney N. G. f

BROWNSVILLE

Fishburn S. S. f l
Fisher Wm. H. f l
Lenhart Geo. W. & Son f la

BUTLER

Abrams E. E. & C. A. f l
Campbell Wm. J. l
Clark J. a
Evans Walter l
Forsyth J. E. f la pg
Forsyth R. M. f l
McJunkin L. D. f la
Nicholls R. D. l a
Stein W. A. l a
Vogele Theodore f la

CANTON

Brooks Lee f
Cleveland E. J. f la
Krise & Jewell f la

CARBONDALE

Baker Wm. R. f la
Bridgett P. f
Couch Geo. D. f pg a
Hackenberry H. J. l
Jadwin R. A. l
Lathrop Mrs. I. f
O'Hearn J. f
Reynolds & Avery f
Wheeler E. A. l

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 Fraser S. S. *fg*
 Morgan W. D. *la*
 Munnerlyn B. A. *f*
 Pyatt J. S. *f*
 Sparkman Jas. R. *f*

GRANITEVILLE

Cloy & Giles *f*
 Hard B. W. *f*

GREENVILLE

Barton W. A. *la*
 Bedell Arthur *f*
 Bollin E. M. *f*
 Capers F. *f*
 Donaldson M. L. *la*
 Ferguson John *f*
 Gassaway W. L. *f*
 Goldsmith Wm. Jr. *f*
 Goodlett R. C. *f*
 Gower T. C. & Son *f*
 Hayne Bros. *f*
 Jenkins A. H. *f*
 Mitchell J. F. & Co. *la*
 Whitner F. C. *f*
 Yates C. L. *f*

GREENWOOD

Hodges G. C. *f*
 Lee A. St. C. *f*
 Miller S. E. *f*
 Parks J. T. *f*
 Sparkman R. S. *f*

HARTSVILLE

Coker J. L. & Co. *f*

S'TH CAR.—Con.**JOHNSTON**

Calhoun J. W. *la*
Coleman W. L. Jr. *f*
Jefferson E. E. *f*

LANCASTER

Clark A. J. *fl*
Witherspoon B. J. *flta*

LAURENS

Barksdale C. D. *l*
Barksdale John A. *f*
Dial W. H. *flcta*
Fleming J. O. C. & Co. *f*
Johnson Cannon *l*
McCaslan W. M. *l*
Moreley & Moreley *fa*
Nelson T. H. *f*
Todd T. E. *fla*
Traynham J. H. *fla sbt*
Vance S. W. *l*

LEXINGTON

Bradford C. S. *l*
Bradford C. S. & Co. *fla*

MANNING

Nettles S. A. *fa pg*
Wilson F. A. *fl*

MARION

Cross W. H. *l*
Hamer P. B. *fa pg*
Johnson J. M. & J. W. *f*
Johnson N. M. *l*
Montgomery & White *f*
Moody T. C. *l*

MAYESVILLE

Hudson R. W. *l*
Mayes M. P. Jr. *f*

NEWBERRY

Booster S. P. *flta*
Cook H. P. *fla*
Fifen A. P. *l*
Scott E. A. *f*
Tarrant W. T. *f*
Wilson L. H. *ft*

ORANGEBURG

Brunson & Moseley *f*
Bull & Scovill *f*
Fowles James H. *ft*
Hamilton James A. *f*
Kortjohn C. D. *la*
Moseley H. W. *f*

PENDLETON

Taylor Geo. E. *f*

ROCK HILL

Hutchison & Cherry *fla*
sb *t*
London John R. *f*

Poag P. C. *f*
Roddey W. J. *l*
Reid W. G. *f*

ST. MATTHEWS

Loryea J. H. *f*
Zimmerman J. W. *lsc*

SENECA

Satton M. N. *fl*
Stribling J. W. *f*
Stribling T. E. *a*

SPARTANBURG

Ball H. S. *fl*
Carlisle C. H. *f*
Carlisle J. H. Jr. *fl*
Cofield Jas. & Co. *fla sbt*
Elford J. M. *fla sbt*
Law Jno. A. *l*
White A. L. & Co. *fl*

SUMMERVILLE

Dehon W. R. *fla sbt*
h *t*

SUMTER

Moses A. *fl*
Phelps A. C. *flpgs*
White A. & Son *fla*

SYCAMORE

Bacott G. C. *f*
Hooton A. B. *fl*

TIMMONSVILLE

Lechner F. C. *f*
Trozier D. H. *fl*

UNION

Cohen H. M. *l*
Farr & Thomson *fa*
Munro & Cohen *fl*
Nicholson W. A. & Son *f*
Young & Hunter *f*

WESTMINSTER

Anderson W. P. *falt*
Quillian J. W. *la*

WILLIAMSTON

Horton C. E. *f*
Horton Clyde *la*
Prince H. H. *l*

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Board Fire Underwriters

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Caldwell J. C. *fa sbt*
McMasters J. F. *f*

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Grist S. M. & L. G. *f*
Jeffreys T. S. *f*
Kuykendal C. M. *f*
Lindsay J. R. *fla*

SOUTH DAKOTA.**ABERDEEN**

Bolles & Co. *ft*
Erwin G. M. *l*
Fisher Chas. A. *flta h*
Fletcher C. C. *f*
Hays J. W. *l*
Kuney J. C. *l*
Marple H. M. *l*
Milligan & Stroupe *f*
Narregang G. W. *la*
Paulhamus J. A. *f*
Reed C. E. *fl*
Windsor W. B. *flgt*

ALEXANDRIA

Curran Felix *f*
Foster G. E. *fltha*
Holden J. W. *flh*
Knap W. D. *f*
Russell S. F. *la*
Van Wageningen Frank *fl*

ARMOUR

Boylan Thos. *flht*
Cline E. W. *ft*
Hospers Peter *flht*
Johnson Bros. *fl*
Roberts W. A. *flth*
Tipton W. E. *ft*
Wanzer E. P. *ft*

ASHTON

Billinghurst Bros. *f*
Hawkins A. F. *l*
Lee Myra N. *f*
Ryman E. W. *fl*
Watkins S. P. *f*

BLUNT

Houtz J. I. *ft*
Waite W. W. *fl*
Westover N. E. *flshht*

BRIDGEWATER

Abel E. L. *f*
Gage & Payne *f*
Morse W. A. *f*
Pritzkan L. *f*

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Abbott Byron *f*
Aplin J. J. *f*
Cooper E. A. *f*
McDonough T. B. *f*
McDougall J. E. *a*
Sherin A. *f*
Turner H. R. *f*
Wells J. *f*

BROOKINGS

Carlisle F. J. *f*
Fairman Millard *f*
Fishback H. *f*
Murphy P. C. *f*
Palmer & Fox *f*
Young R. E. *f*

CASTLEWOOD

Curtis H. H. *fl*
Horswill H. P. *fl*

CENTREVILLE

Thomson J. S. *fl*
Wass V. C. *fltha*

CHAMBERLAIN

Carpenter & Farrell *fla*
Drury E. L. *flht*
Graybill W. C. *f*
Hayes Scott *fl*
Henry Bros. *fl*
Morrow C. C. *f*

COLUMBIA

Atkins C. W. *fl*
Hunsberger I. *ft*
Loomis & Corry *ft*

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Delicate T. W. *fca*
Grantham E. L. *f*
Hanley W. F. *f*
Pilcher J. E. *f*
Smith Chas. *f*

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Cushman & Son *fls pg*
Dague B. P. *l*
Edmonds & Dague *f*
Pope R. R. *l*
Silwell L. W. *f*

DELL RAPIDS

Bowerman G. E. *fa*
Kenefick E. R. *l*
Kenefick M. R. *flht*
Krause G. R. *f*
Lund W. G. *f*
Peters S. P. *fa*
Rathman & Bell *l*
Roberts L. W. *fa*
Robertson Henry *flht*
Smith O. H. *fl*

DE SMET

Carroll J. H. *f*
Johnson & Able *fl*

Mason & Callanan

Seelye A. G. *flht*
Seelye W. L. *flht*
Schenian A. P. *f*
Whiting & Cooley *fltha*

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Alexander J. P. *f*
Donohue M. C. *h*
Gibson Geo. *f*
Grattan O. T. *f*
Hodge J. E. *f*
Kniaz Geo. *f*
Meyer Theo. *fl*
Murphy H. S. *f*
Young C. *flh*

ESTELLINE

Reeves H. H. *flht*
Whittemore W. E. *flht*

EUREKA

Hooper F. H. *f*
Mitschrick Chas. *f*
Pem August *flh*
Puffer Chas. *f*

FAULKTON

Cornwell J. Allen *fls*
Morse A. W. & C. A. *f*

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Faegre A. *flth*
Pettigrew Geo. A. *ft*
Smith Jesse A. *ft*

FORT PIERRE

Hayes John *flm lta*

GARY

Eakins J. C. *fltha*
Houghton Ashley L. *fltha*
Houghton A. L. Sr. *fltha*
Petryjohn Jas. *f*

GROTON

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Basam N. S. *flcpg*
Johns D. B. *f*
McKenzie & Erwin *f*
Miller W. B. *f*

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Lichtenwallner W. A. *fls*
Summerside W. *ft*

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Wight John F. *fltha*

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Farmer & Farmer *fla shht*
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Olson C. L. *fl*
Seeborn Bros. *fl*

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Bryant C. E. *ft*
Elson J. E. *l*
Hinckley H. C. *ft*
Klemme J. C. *flta*
Lyon P. B. *l*
Turner J. E. *l*
Wardall N. M. *flta*

IROQUOIS

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Johnson A. *f*
Lostutter L. L. *ft*
Smith J. R. *flht*
Zimmerman C. F. *flht*

KIMBALL

Long J. B. *f*
Savage & Savage *flht*
Stuver A. S. *f*
Weeks I. A. *f*
Whitebeck A. C. *f*

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Curran J. W. *fla pg*
Long Wm. *fl*
Rice M. L. *la*

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Davidson J. W. *f*
Fitta F. D. *flht*
Holdridge D. D. *f*
Jones J. L. *f*
Kennedy Chas. B. *fl*
Mackay W. A. *f*
McCallister G. L. *h*
Mead & Bergstresser *f*
Scott D. T. *f*
Sheridan E. *f*
Smith W. F. *f*
Trow J. A. *f*
Tuttle G. F. *l*
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Reiley Pitt *f*
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Merchant Geo. W. *f*
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Schatz Henry Jr. *f*
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Glidden D. S. *f*
Holbrook Dwight *f*
Hollister, Clark & Co. *f*
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Swett W. W. *f*

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James W. H. *f*
Kimball J. G. *f*
Wright G. W. *f*

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Dawson E. B. *f*
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Lewis S. J. *f*
McKay A. N. *f*
Schaeffer & Dawson *f*
Swezey L. T. *f*
Thompson O. W. *f*
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Budd E. F. *f*
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Gove E. A. *f*
Fahnestock H. E. *f*
Sheldon H. *f*
Sheldon S. B. *f*
Walrath H. D. *f*
Williams G. R. *f*

WEBSTER

Alley J. *f*
Blake J. F. *f*
Bones T. A. *f*
Compton D. B. *f*
Gross L. *f*
Huntington E. *f*
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Sears Frank *f*
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Albro J. E. *l*
 Bell Alfred J. *f l f g*
 Clarkson C. J. P. *f g*
 Cory C. D. *f*

Doyle E. F. *f*
 Duffus John *f*
 Duffus Wm. *f l a*
 Evans C. H. *f l*
 Fielding B. A. *l*
 Farquhar, Forrest & Co. *f l*
 Gouge Thomas *f*
 Greene F. W. *l*
 Greer G. M. *f l a*
 Harrington A. E. *l*
 Harvey J. H. *f l*
 Heustis M. B. *f*
 Irwin Henry *l*
 Johnson J. A. *l*
 Jones G. W. *l s b a*
 Kenny J. F. *f m*
 Kenyon John *l*
 Lavers G. E. *l*
 Lowell W. L. & Co. *f l*
 MacKintosh Jas. C. *s*
 McLaren E. D. *l*
 Paton J. E. *f*
 Reynolds C. F. *l*
 Shortt Alfred *f l a*
 Spike Clarence J. *f l*
 Strachan John *m*
 Thomson & Devlin *f*
 Twining J. T. *f m*
 Twining J. M. *f m*
 Twining R. *f*
 Wood J. T. *m*
 Wyld C. J. *f l*

NEW GLASGOW

Bell A. C. *f l a*
 Cameron John *f l*
 Fitzpatrick H. K. *f*
 Fraser D. C. *f l*
 Jennison H. V. *f*
 McGillivray John M. *l*
 McGregor Jas. D. & P. A. *f l*
 McKenzie W. F. *a*
 Sinclair J. H. *f l*

Sutherland H. T. *f*
 Wolfe H. A. *f a*

PICTOU

Chrisholm G. R. *f l*
 Elliott G. H. *f l*
 Fraser F. Wyatt *f l a*
 Ives Chas. W. *f*
 McDonald E. M. *f l*
 Primrose Bros. *f*
 Ross John U. *f*
 Sutherland D. *f*
 Tanner Chas. E. *f*
 Tanner Thos. *f*

SPRINGHILL

Fairbanks E. B. *f l*
 Foster A. W. *f l*
 McLeod Daniel *f*
 Murray R. B. *f l*

STELLARTON

Fraser John *f*
 Grant Alex. *f l*
 Gray Donald *f*

TRURO

Blair D. C. *f l*
 Blair J. K. *f*
 Campbell & Paterson *f l*
 Crowe L. G. *f g*
 Cummings & Lovett *f*
 Dickie M. *f l*
 Gourley S. E. *f*
 Kent J. H. *f*
 King T. M. *f l f g a*
 King W. P. *f a g*
 Layton Geo. *f*
 Longhead W. Y. *f l a*
 Longworth & Layton *f*
 McClure & Corbitt *f l*
 McLellan S. D. *f l*
 Tremaine R. A. *f l*

Tupper A. N. *f*
 Tupper H. *f*

WINDSOR

Allison D. P. *f*
 Auslo James J. *f*
 Blanchard & Morse *f l a*
 Blanchard W. H. *f m*
 Christie W. M. *f*
 Dimock Henry W. *f*
 Dimock F. W. *f*
 Goudge M. H. *f*
 Haley Allen *f*
 Lawson W. *f*
 Nolder John *f m*
 Ruggles H. D. *f l*
 Shaw & Laeyster *f l*
 Shand C. J. *l*
 Sterling John *f*
 Sutherland W. D. *f*

YARMOUTH

Armstrong E. H. *f l*
 Corning & Chipman *f l*
 Eldridge A. E. S. *l*
 Flint T. B. *f*
 Godfrey C. G. *a*
 Goudey Hiram *f*
 Grantham C. T. *f*
 Grantham H. A. *f*
 Guest John *f*
 Hatfield Job *f m*
 Kelly R. M. *l*
 Kempton W. F. *f*
 Killam Bros. *f l m*
 Law W. & Co. *f m*
 Lewis Geo. C. *f m l*
 Moody J. W. *f*
 Murray S. B. *f l*
 Rogers B. E. *f*
 Rogers J. R. *l*
 Sanderson Geo. G. *f m*
 Spinney E. K. *f m l*

ONTARIO.

ALEXANDRIA

McDonald Angus *f l a*
 Tomb James *a*

ALLISTON

Clark W. I. *f l a*
 Henderson K. *a*
 Hoath J. S. *a*
 Kelly P. D. & Son *f*
 Lee G. F. *l*
 Salter John E. *l*
 Stewart John *f*

ALMONTE

Bell & Wilkie *f g*
 Bowes W. *f*
 Cars Geo. *l*
 Coulter L. *f l*
 Fraser D. M. *f*
 Garvin Geo. *l*
 Greig & Jamieson *f*
 Munro J. M. *f*
 Pollock W. C. *f g*
 Rosamond J. M. *f*
 Wilson H. *f*

AMHERSTBURGH

Falls Bros. *f l a m g l*
 Lucham D. R. *l*
 McBride W. J. H. *l*
 McGee Samuel *l*
 McGuire Wm. *f*
 Pettypiece J. H. *f l m g a*
 Wright C. *a*

BARRIE

Beardsley A. *f*
 Collard W. *l*
 Cooper A. B. *l*
 Courtland N. H. *l*
 Edwards J. *f*
 Fletcher & Brownlie *f l a g g*
 56

Galbraith John *f l*
 Harper Henry *f l a*
 Jory H. *l*
 Kennedy Thos. *f*
 Lally E. S. *l*
 Lett F. A. & Co. *f l m a*
 Lyon O. H. *f l*
 Marr Fred *a*
 McEneaney J. *l*
 Montgomery F. M. *f l a*
 Morris Chas. *f l a*
 Oliver John *f l*
 Patton P. *l*
 Rogerson John *f l a*
 Scroggie & Smith *f l f g*
 Smith I. F. *a*
 Sparling J. *l*
 Strathy J. A. *f*
 Williams E. E. *f*
 Wilson A. A. *f l*

BELLEVILLE

Beggar J. L. *l*
 Booth James *a*
 Burrows S. *l*
 Campbell W. *f l m*
 Chrisholm Jas. A. *f l*
 Clarke F. M. *f*
 Diamond Irvine *l*
 Diamond W. J. *f*
 Goldsmith George *f l*
 Hudson W. P. *l*
 Ketcheson A. M. *f l*
 La Roche E. H. *f*
 Lazier J. N. *a*
 Lazier T. C. *f l a g m*
 Little Jas. *l*
 Mills Thos. *l*
 Palmer P. R. *f l*
 Rathbun C. *f*
 Stewart Thos. *f*
 Thomas John Parker *f l a*
 Thompson M. M. *f a m g g*
 Vandusen J. G. *a*

BERLIN

Boehmer A. O. & Co. *f a*
 Bowman A. L. *l*
 Bowman I. D. *f*
 Eshelman Moses *f*
 Kimmel John *f l*
 King W. C. J. *f*
 Kranz Hugo *a*
 McIntyre G. A. *f*
 Oelschlagner A. *f g*
 Rose W. S. *l*
 Ruby A. *f*
 Staebler J. M. *a*

BLENHEIM

Appleford R. *f l*
 Baird G. M. *l*
 Deacon F. M. *f a l*
 Greenwood Jas. *f*
 Hall W. E. *f l a m g*
 Osborn E. *f l a*
 Samson A. *f*
 Wilkie Robt. *f*

BOWMANVILLE

Allen W. F. *f*
 Bingham Thos. *f l f g*
 Bowden S. *f*
 Cann Henry *f l*
 Clinne W. R. *f*
 Jones W. J. *f l m*
 Luscombe R. R. *f*
 Magill George *f*
 McMurtry T. H. *l*
 Simpson D. B. *f*

BRACEBRIDGE

Browning R. M. *f f g*
 Bridgland H. B. *f l f g*
 Davidson J. C. *f l*
 Dickie Moses *a*
 Huber Isaac *f*
 Mahaffey A. A. *f l*
 Perry R. P. *f l a*

BRADFORD

Barnard B. *f*
 Boady J. S. *f*
 Broughton H. *f*
 Dewsen T. *f*
 Garrett E. *f*
 Green H. F. *f l*
 Hamer W. T. *l*

BRAMPTON

Anderson James *f*
 Blain T. *f*
 Cheyne L. *f l*
 Cooney John *f l a*
 Holtby I. W. H. *f l*
 Hunter W. D. *f a f g*
 Hutton J. O. *f l a*
 Justin B. F. *f*
 Lowes J. W. *f l*
 Manning J. *f*
 McFadden W. H. *f*
 Morton & Co. *f a l f g*
 Roberts Henry *f*
 Sanderson L. D. *f a l f g*

BRANTFORD

Adams H. B. *f l*
 Blackader L. E. *f a f g*
 Buchanan C. K. *f m*
 Campbell John *f*
 Cornell A. C. *f l a*
 Dale I. A. *a*
 Foster Thos. *f*
 Frank Fred *l*
 Grace James *f*
 Heyd Geo. D. *f*
 Howell Nelson *l*
 Howell W. *f l a*
 Jones E. W. P. *l*
 Leitch John A. *f*
 McIntosh W. J. *f l a*
 Muir M. *f*
 Muirhead A. D. *l*
 Passmore S. F. *l*

ONT., Brant^d—Con.

Read S. G. *f*
 Sims E. *f*
 Stratford Joseph *f*
 Wade Thos. S. *f*
 Watts A. & Co. *f*
 Wilkes Geo & Co. *f*
 Wilkes James *f*
 Wilkes Walter A. *f*

BRIGHTON

Hewitt R. *f*
 Keeler Thos. P. *f*
 McAuley Wm. *f*
 Morrow J. H. *f*
 Forte W. W. *f*
 Webb A. *f*
 Wellington I. M. *f*

BROCKVILLE

Austin W. C. *f*
 Barr Geo. *f*
 Biggs W. R. *f*
 Bisset E. A. *f*
 Buckman E. A. *f*
 Cluff W. J. *f*
 Consett H. H. *f*
 Field W. A. *f*
 Gamble R. H. *f*
 Jackson H. F. *f*
 Jones D. B. *f*
 Kennedy J. D. *f*
 Mansell I. J. *f*
 Moorehouse N. *f*
 McNamara P. B. *f*
 West F. W. *f*
 Weatherhead *f*

BRUSSELS

Hunter A. *f*
 Kerr W. H. *f*
 O'Connor J. M. *f*
 Rogers Geo. *f*
 Scott F. S. *f*
 Shaw John *f*

CAMPBELLFORD

Denike R. B. *f*
 Ferris J. B. *f*
 Gillespie T. G. *f*
 Horkins T. J. *f*
 Irwin John *f*
 Rankin W. E. *f*
 Rutherford John *f*

CARLETON PLACE

Allen W. H. *f*
 Goth J. A. *f*
 McIntosh C. *f*
 Morgan R. & Co. *f*
 Nagle T. L. *f*

CHATHAM

Adams W. H. *f*
 Atkinson & Rispin *f*
 Douglas Geo. B. *f*
 Falls A. F. *f*
 Grandy John *f*
 Harper W. H. *f*
 Harrington R. A. *f*
 Harris T. E. *f*
 Humphrey J. W. *f*
 Hughes R. A. *f*
 Lamont A. *f*
 Marx F. *f*
 Merrifield W. K. *f*
 O'Hara R. *f*
 Parrott E. E. *f*
 Richardson A. *f*
 Richardson J. *f*
 Russell J. A. *f*
 Smith & Son *f*
 Tiesman John *f*
 Wadman James *f*
 White A. H. *f*

CLARKSBURG

Hartman C. W. *f*
 Pye Chas. *f*
 Korke Jos. *f*

CLINTON

Coats Wm. *f*
 Cooper A. T. *f*

Cooper Israel *f*
 Cooper Wm. *f*
 Farran W. W. *f*
 Foster Horace *f*
 McDonagh T. E. *f*
 Pattison A. O. *f*
 Ridout J. *f*
 Stanley R. D. *f*
 Tisdall J. P. *f*

COBOURG

Barber A. P. *f*
 Bickle John W. *f*
 Campbell Ed. *f*
 Clarke Jas. *f*
 Ewing D. *f*
 Fish W. T. *f*
 Gill C. N. *f*
 Hagerman J. G. *f*
 Hargraft A. R. *f*
 Howell S. S. *f*
 McNaughton D. *f*
 Osler E. H. *f*
 Roberts D. *f*
 Webb H. C. *f*

COLLINGWOOD

Callary B. *f*
 Churchill Fred W. *f*
 Copeland W. A. *f*
 Heuser A. *f*
 Hogg W. A. *f*
 Hilborn N. B. *f*
 Knight A. D. *f*
 Robinson Thos. Jr. *f*

CORNWALL

Campbell P. E. *f*
 Davey C. E. *f*
 Jarvis G. L. *f*
 Kirkpatrick J. T. *f*
 McMillan A. V. *f*
 Monroe D. *f*
 O'Callaghan S. J. *f*
 Porteous A. T. *f*

DELHI

Ferguson Bros. *f*

DESERONTO

Malley J. M. *f*
 McCullough John *f*
 Rathbun Co. The *f*

DRESDEN

Bridgewater B. *f*
 Burnin John *f*
 Hicks D. V. *f*
 Wallace S. *f*

DUNDAS

Burrows Geo. F. *f*
 Knowles W. E. S. *f*
 McKenzie T. H. *f*
 Mills Solomon *f*
 More James *f*
 Smith J. Findlay *f*
 Suter F. D. *f*
 Vaughan Jos. *f*

DUNNVILLE

Conolly R. G. W. *f*
 Holmes J. W. *f*
 Massecar L. *f*

ELORA

Beam J. G. *f*
 Broley W. E. *f*
 Carter Alex. *f*
 Gale & Petrie *f*

EXETER

Carling W. J. *f*
 Dickson L. H. *f*
 Elliott Ernest *f*
 Hurdon N. D. *f*
 Huston Henry *f*
 Kemp Geo. *f*
 Knight J. J. *f*
 Ross J. P. *f*
 Snell Chas. Sr. *f*

FENELON FALLS

Arnold Jas. *f*
 Austin John *f*
 English Jos. *f*
 Graham John R. *f*
 Junkins W. T. *f*
 Mason R. M. *f*
 McArthur Wm. *f*
 McDougall F. *f*
 McDougall & Brandon *f*
 Webster Wm. *f*

GALT

Brown A. S. *f*
 Cole Wm. *f*
 Cumming & Powell *f*
 Deans Wm. *f*
 Jaffray Rd. *f*
 Linton C. B. *f*
 Linton E. *f*
 McGivern Thos. *f*
 Moffatt J. S. *f*
 Montgomery W. H. *f*
 Simpson G. P. *f*
 Strong R. S. *f*
 Struthers R. G. *f*
 Taylor J. W. *f*
 Virgil W. *f*

QANANOQUE

Boyd W. Y. *f*
 Heaslip P. *f*
 Hubbell C. H. *f*
 Peck Geo. *f*
 Rogers C. B. *f*
 Russell A. P. *f*
 Sheppard R. *f*

GEORGETOWN

Guthrie Jas. *f*
 Murray C. G. *f*
 Phillips S. *f*
 Roe C. C. *f*
 Tracy J. *f*

QLENCOE

Barclay M. F. *f*
 Dobie Geo. *f*
 French W. *f*
 Harrison G. M. *f*
 Walker Isaac *f*

QODERICH

Campbell Wm. *f*
 Gundry Thomas F. *f*
 Horton Horace *f*
 Lee Wm. *f*
 Naftel F. J. T. *f*
 Radcliffe Richard *f*
 Searge Chas. *f*
 Sheppard Geo. *f*
 Stevens Geo. *f*
 Woodcock E. *f*

QUELPH

Armstrong C. *f*
 Burton & Calvert H. A. *f*
 Cunningham R. *f*
 Davidson John *f*
 Hefferman Joseph *f*
 Huston E. H. *f*
 Jackson H. *f*
 Kilgour J. *f*
 Little A. *f*
 McCrae *f*
 McCreath H. D. *f*
 Oxnard G. A. *f*
 Stone F. W. *f*
 Webster Robert *f*
 White W. W. *f*

HAMILTON

Ambrose Walter *f*
 Blackstone & Burns *f*
 Bunbury H. T. *f*
 Copeland Geo. *f*
 Dexter David *f*
 Dunlop R. *f*
 Fager M. P. *f*
 Fairgrieve J. B. & Son *f*
 Findlay S. A. *f*
 Findlay W. F. *f*
 Freeman & Sons *f*
 Gates F. W. Jr. *f*

Gillespie G. H. *f*
 Goddard & Treneman *f*
 Harris J. C. *f*
 Harvey John *f*
 Healey H. J. *f*
 Hiles W. C. *f*
 Jones S. *f*
 Kld David *f*
 McLroy S. Q. *f*
 McKead Geo. *f*
 McKenzie Thos. H. *f*
 Mackenzie J. A. *f*
 Martin & Morphy *f*
 Moore & Davis *f*
 Moreton & Spratt *f*
 Morden D. & J. *f*
 Murdoch Andrew *f*
 Pennington M. A. *f*
 Ramay A. G. *f*
 Routh & Payne *f*
 Rutherford & Lester *f*
 Scott & Watson *f*
 Strong Wm. *f*
 Stoney John L. *f*
 Walker James *f*
 Young G. A. *f*

HAWKESBURY

Higgins J. G. *f*
 McGregor D. *f*
 Morrow John *f*

INGEROLL

Chadwick C. E. *f*
 Coleridge J. *f*
 Cuthbertson D. G. *f*
 Ferguson C. W. *f*
 Hall I. *f*
 Hegler J. Jr. *f*
 Norworthy J. C. *f*
 O'Connor H. Jr. *f*
 Ryan C. B. *f*
 Smith John S. *f*
 Sumner W. K. *f*

KINCARDINE

Boyer John *f*
 Campbell Alexander *f*
 Fleming James H. *f*
 Gamble J. W. *f*
 Loscombe Francis A. *f*
 Loscombe W. C. *f*
 McLean Daniel *f*
 Rapley J. W. & Co. *f*
 Stewart James McK. *f*
 Taylor F. O. *f*
 Williamson A. M. *f*

KINGSTON

Allen G. H. *f*
 Fair W. J. *f*
 Franigan M. *f*
 Fraser Donald *f*
 Gardiner John A. *f*
 Gildenleeve J. P. *f*
 Godwin W. H. *f*
 Goodearle A. *f*
 Kirkpatrick G. A. *f*
 Loscombe E. M. *f*
 McCann Jas. *f*
 McIver C. H. *f*
 Mills Thos. *f*
 Oram J. P. *f*
 Sayth E. H. *f*
 Strange & Strang *f*
 Swift Joseph *f*
 White Frederick *f*
 White J. T. *f*
 White W. J. B. *f*

LEAMINGTON

Baker A. G. *f*
 Coulson W. C. *f*
 Fox Geo. M. *f*
 Fulmer M. *f*
 Morse G. *f*
 Phillips P. *f*
 Stores & McSwain *f*

LINDSAY

Armstrong J. C. *f*
 Bartholomew L. *f*
 Blain Jas. *f*

Connelly S. *l*
Cornell B. *l*
Eyles J. *l*
Flork E. *l*
Gilligley J. A. *fl*
Harshaw John *l*
Hartnutt P. J. *l*
Irwin S. *l*
Kenny J. P. *fl*
Knowlson Bros. *fla*
Knowlson J. B. *flpg*
McLaughlin H. *l*
Middleton Thos. *fla*
Middleton W. A. *fla*
Nutting M. L. *l*
O'Boyle W. F. *fl*
Perchard J. *l*
Sootheran J. H. *fla*
Taylor F. C. *fla*
Werse F. B. *fl*

LISTOWELL

Bolton & Son *flma*
Bricker M. *l*
Clayton W. R. *fl*
Dixon Wm. *l*
Donaldson Geo. Y. *l*
Hamilton T. L. *l*
Hay W. *l*
Martin Robert *l*
Scott J. W. *fl*
Smith S. M. *fla*
Tafferner C. *fl*
Tilt N. *l*

LONDON

Alkman Alex. *l*
Beldome & Brown *flma*
Butler R. & Son *fla*
Flood & Campbell *l*
Gates H. E. *l*
Gilleen A. *fl*
Gunn G. M. & Son *flma*
pgscsb
Hammond F. J. *fla pg*
Hungerford R. B. *l*
Laing Geo. *l*
McPherson A. *fl*
McRobert E. J. & Bro. *fl*
Merritt G. H. *l*
Miller G. W. *l*
Nelles J. A. *flm pg*
Owens E. B. *l*
Powell A. B. *fla*
Pritchard G. *fl*
Taylor E. V. *fl*
Towe E. *l*
Wallace A. *fl*

LUCKNOW

Berry G. W. *l*
Connell William *l*
Hays D. *a*
Mair Geo. & Co. *fl*
Morrison H. *l*
Murchison John *l*
Patterson Donald *l*

MEAFORD

Agnew R. *flma*
Arlidge W. F. C. *flma*
pg
Cameron A. McK. *l*
Ferguson D. A. *fl*
Robertson Matthew *fl*
Sing C. R. *fl*
Stewart James *fl*
Trout & Jay *flm pg*

MITCHELL

Blowes John *l*
Campbell F. A. *l*
Campbell H. *l*
Clegg Wm. *fl*
Cull J. W. *fl*
Dent & Thompson *fl*
Ford T. S. *fl*
Goodeve G. S. *fl*
Harris J. *l*
Kerr W. A. *fl*
Kidd Geo. *l*
Mahaffy G. *l*
Rabb R. *l*
Walker A. R. *fl*

MT. FORREST

Colclough Geo. *fla*
Cook J. J. *flm pg*
Donoghue F. *l*
Jelley H. *fla*
Perry W. C. *fla*
Stevenson H. *fla*
Wilkes W. C. *fla*

NAPANEE

Anderson Thomas E. *fl*
Bogart M. C. *fla*
Caton Geo. *fla*
Caton Nathan *fla*
Daly W. W. *l*
Davis T. G. *flpg a*
Deroche & Madden *fl*
Downey J. H. *flm*
Hall W. F. *flm pg*
Hann John *fla*
Harshaw A. T. *l*
Lapum F. S. *fla*
McKim J. N. *l*
Metzler J. W. *flm*
Paul A. E. *flpg*
Randell Alfred *l*
Snider G. W. *fl*
Stevenson John H. *l*
Symington Thos. *l*
Vrooman Silas *l*
Wilson W. G. *fl*

NEW MARKET

Bastedo J. A. *flpg*
Brooks Millard *l*
Hogaboom G. R. *fl*
Hughes E. *l*
Lawrie W. D. *l*
Lehman L. *fl*
Lloyd David *l*
Loyd T. H. *l*
Ramsay A. A. *fl*
Ratcliff T. *l*
Sharpe John A. *fl*
Souch J. E. *fl*

NIAGARA FALLS

Coulson Richard *fla pg*
Peckhorn & Tench *fla*
Robinson John *fl*

NORTH BAY

Browning A. G. *fl*
Cormack J. G. *fl*
Martin W. *fl*
Mawhinny W. *fl*
McKenzie W. *fl*

NORWICH

Butterfield D. S. *flpg a*
Dagel H. J. *fl*
Denovan A. A. C. *fla*
Mills J. *fla*

ORANOEVILLE

Bennett J. M. *fla*
Bradley W. W. *l*
Brown D. B. *flpg a*
Clark Wm. *l*
Hare J. D. *fl*
Hewat W. R. C. *l*
Irwin Francis *flpg*
McPherson D. *fl*
Medley R. W. *fl*
Parsons Thos. *fl*
Still W. *fl*
Swinton R. *fl*
Webber H. S. *l*

ORILLIA

Bacon Wm. *fl*
Bingham H. A. *l*
Bingham W. G. *fl*
Bolster G. L. *fl*
Royle John *l*
Carbould C. *fl*
Cavana A. G. *fl*
Croker H. *fl*
Culloden Andrew *fla*
Dunham R. *l*
Fitton C. E. *fl*
Fowle A. *l*
Hamilton G. R. *fl*
Robinson T. H. *a*
Rose J. C. *fl*

Secord J. P. *fla*
Thompson J. J. *fl*

OSHAWA

Beck G. *fl*
Carswell H. Thos. *fl*
Cassels L. *fl*
Currie John *flpg a*
Dingle F. E. *fl*
Glenney Wm. *fl*
Grierson L. F. *fl*
Maxwell H. *fl*
McMillan Thos. H. *fl*
Owen J. P. *fl*
Scott George J. *fla*
Warren Fred *fl*

OTTAWA

Batson B. *fl*
Black W. *fl*
Chitty C. D. *l*
Culberth John Jr. *fl*
Douglas C. A. & Co. *flma*
Durie J. & Son *fl*
Egan H. K. *fl*
Haycock R. H. *l*
Junkin J. F. *fla*
Lamb W. A. *l*
King Charles *fl*
King Edward *fla*
Larmouth P. *fl*
Mill A. *l*
Pennock J. T. *fl*
Pennock & Mason *fl*
Selwyn E. *a*
Stewart Robert *l*
White W. *l*
Woodburn Geo. H. *fl*

OWEN SOUND

Black P. A. *l*
Christie R. *fl*
Craig Jas. *l*
Dobie D. R. *flpg*
Glenn W. *l*
Grigg C. K. *flpg m*
Henderson J. B. *l*
Miller R. B. *fl*
Price George *fl*
Raven J. P. *fl*
Rome W. F. *l*
Rutherford John *fl*
Spencer George *fl*
Stephens A. M. *fl*
Sutherland Jas. *fl*
Telford Wm. *fl*
Todd Ed *flm*

PARIS

Bain John *fla*
Baird A. H. *m*
Bullock Joseph *fl*
Gillis Robt. *l*
Hoey James *fla pg*
Kay John *flpg*
Key Wm. *flfl*
Martin John *l*
Ryall Thos. *l*
Walker John *l*
Whitelaw Charles *fl*

PARKDALE

Ecclestone A. *fla*
Edwards T. *fl*
Gowanlock *fl*
Hamilton W. L. *l*
Hayes Frank *fla*
King R. S. & Co. *fla*
McMath H. *l*
Shaw E. S. *fla*

PARK HILL

Bigg E. M. *flpg*
Cunnington J. H. *l*
Dickson W. *l*
Gilbert A. B. *l*
Manes E. F. *fl*
May W. T. *fl*
Mayberry T. A. *fla pg*
Phippin R. *fl*

PEMBROKE

Bromley J. H. *fl*
Burritt J. H. *l*
Chamberlain & Co. *fla*
pgsb
Fortier A. J. *fl*

Gordon R. W. *l*
Horn T. R. *fl*
Hunter S. S. M. *fl*
Murry Wm. *l*
Perrett H. W. *fla*
Warren D. B. *fl*

PERTH

Allan J. A. *fl*
Bower's Son J. *pg*
Code John *fl*
Consitt G. A. *l*
Develin Geo. *l*
Rogers J. M. *fl*
Hall F. A. *fl*
Henderson J. T. *flm pg*
Kellock J. F. *fl*
Mallock E. G. *fl*
Matheson A. *fl*
McLeneghen John *l*
Meighen & Bros. *l*
Moorehouse H. *l*
Morgan C. G. *l*
Rudd A. B. *l*
Taylor Henry *l*
Whateley Geo. *fl*

PETERBOROUGH

Cameron Chas. *flpg*
Cluxton W. H. *fl*
Cox & Davis *fla pg*
Erret R. W. *fl*
Henry Peter *fl*
Hill W. H. *fla pg*
Horkins Wm. *l*
Lindsay A. *fl*
Maharny H. B. *fl*
Manson Wm. *fl*
McGill Chas. *fl*
O'Donnell John *l*
Rush Harry *l*

PETROLIA

Egan Charles *fla pg*

PICTON

Bog T. *l*
Branscombe H. W. *a*
Brown J. Roland *l*
Gillespie J. F. *flm a pg*
Haugh G. L. *l*
Mastin R. B. *l*
Roblin J. W. *fl*
Ross W. T. *fl*
Williamson W. H. *fla m pg*

PORT ARTHUR

Macdonell & O'Connor *a*
m pg
Mooring G. *l*
Ray S. W. & Co. *flpg*
Ross W. J. *l*
Ruttan J. F. *flpg*
Wiley & Co. *fla*

PORT DOVER

Able David *fl*
Barrett T. B. *fl*
Davies John R. *fl*
Skey Lawrence *flm*
Taylor Robt. *l*
Tibbets W. F. *fl*

PORT HOPE

Andros E. B. *fl*
Benson F. A. *l*
Dickson Rae *l*
Furby G. M. *l*
Irwin J. L. *l*
Lodge J. N. G. *l*
Long T. *l*
Margach A. L. *l*
Sanders H. V. *l*
Smart J. E. *fl*
Smith S. S. *l*
Wallace Mrs. Ida *fl*
Ward H. A. *l*
White H. R. *fl*

PORT PERRY

Adams D. J. *fl*
Brown J. H. *fl*
Brown R. *fl*
Brown R. B. *fl*
Ebbels H. L. *fl*
Fenton W. J. *l*
Laing & Mehary *l*
Pearce C. J. *fla*

ONTARIO—Con.**PRESCOTT**

Bennett H. W. /
Buckley James / *l m pg*
Clint James /
Coates J. B. /
Coates J. E. /
Dowsley J. /
Dowsley M. /
Macpherson W. F. /
White H. B. /
Whitney Albert /
Willard Harper /

RIDGETOWN

Cochran Duncan / *a pg*
Duck George /
Elliott J. A. / *a*
Kinney John /
McKinley John P. /
Watson Geo. A. /

ST. CATHARINES

Camp L. C. & Son / *a l pg*
Eckhardt W. H. /
Grote J. W. / *a*
Groves J. T. /
Helliwell H. M. / *pg m*
Lindsay Albert N. /
Lindsay N. A. / *a l pg*
McCallum Peter & Son / *a*
McGibbon Walter /
Moyer M. W. /
O'Loughlin Henry /
Potter D. D. E. / *a l pg*
Secord P. / *l sb*
Welsh John /

ST. MARY'S

Birch N. E. / *l sb*
Box Richard S. /
Carman A. /
Ford Wm. N. /
Long E. /
McIntyre G. H. /
Stanley T. D. / *a l pg*
Whitworth Miss F. /

ST. THOMAS

Claris George T. / *l m a*
Clark A. J. /
Cook J. W. /
Coulter W. W. / *a l pg*
Ferguson L. /
Ford N. W. / *a*
Frazer Alex. /
Idardi W. E. /
Ingram & Thomson /
McKenzie D. K. / *a*
Moore E. /
Roache G. /
Sinclair D. A. /

SARNIA

Barrie J. B. /
Clark E. A. / *a*
Cook T. /
Dalsiel A. H. / *l m a pg*
Elliott J. F. / *a pg*
Hamilton John W. / *a*
Hosie D. /
Leys John / *a*
MacKenzie John A. /
Maxwell Tim /
McDowall J. A. /
Mills Henry /
Mitchell T. /
Ogden H. H. /
Palmer R. C. /
Pousette H. M. /
Saunders M. A. / *a*
Symington Jas. S. /
Watson Frederick C. / *l*
Wiggins W. / *m pg*
Wright Ed / *a l pg*

SEAFORTH

Beattie John /
Holmsted F. /
Papet C. W. / *m pg*
Strong H. A. & Bro. / *a l*
Watson Jas. & W. N. / *a*
m sb pg

SIMCOE

Boyd J. C. / *a*
Boyd W. D. /
Curtis John E. / *a pg*
Curtis Frank E. /
Ford E. E. / *a*
Johnston J. H. / *a*
Nellis T. R. / *a l pg*
Sharpe Wm. /

SMITH'S FALLS

Bethune F. A. /
Carsa O. /
Jarvis W. H. /
Moag I. / *a*
Miner H. /
Washburn J. /

STRATFORD

Agar S. /
Baker Hy. /
Bolger W. S. /
Brown John / *a*
Buckingham Wm. /
Copus H. W. /
Duncan Stewart /
Frame Alex. /
Hamilton F. /
Hamilton P. P. /
Huckins J. C. /
Helson W. /
Jeffrey Wm. /
Johns J. /
Johnson H. M. /
Lawrence & Son /
Marshall W. J. /
Miller Thos. /
Miller W. /
Mowat A. C. /
O'Donoghue J. /
Packert C. /
Patterson T. P. /
Rennie Geo. /
Scott R. H. /
Stock J. /
Stuart D. /
Waddell And. /
Watson P. J. /

STRATHROY

Allison P. J. /
German C. E. /
German G. G. / *a l pg*
Irwin John / *a l pg*
Lindsay H. G. /
Nicholls John T. /
Nicholson H. /
Noble Jas. /

THORNBURY

Fanson Wm. /
Rorke Geo. /

THOROLD

Conlon T. F. /
Higgins N. Henry / *a l pg*
Macartney W. J. /
Munro Jas. /
Pattison T. F. /
Waldron T. J. /

TILSONBURG

Beitte F. /
Brown T. T. / *a*
Caverhill John /
Denton C. /
Dobbie T. W. /
Imrie Wm. /
Jackson E. C. / *a l pg*
Livingston B. /
McMehan E. /
Merrill L. /
Pratt T. H. /
Raynes A. E. /
Woolley S. /

TORONTO

Adamson W. /
Armstrong H. D. P. /
Atkinson E. J. /
Badenach W. & Son /
Baird R. S. /
Banks Geo. W. /

Banks Greenhow /
Barwick R. L. /
Beemer J. G. / *pg*
Blackburn H. M. Man-
ager T. C. Insurance Office
Blogg T. C. /
Boomer Jas. /
Boonstead J. B. /
Brandon Jas. /
Broughall Geo. /
Brown & Hanson /
Butt R. H. /
Camp L. C. /
Carlie J. B. /
Clark E. F. /
Cooch E. E. /
Cook H. L. /

Geo. A. & E. W. Cox,**MANAGERS****Eastern Ontario****AND****Michigan****Branches****Canada Life****Assurance Co.****Canada Life Building.**

Cromar Alex. /
Dixon A. /
Dixon W. A. /
Douglas J. T. /
Eastmure & Lightbourn a
Ellis Alf. H. /
Ewart J. H. /
Fahey Wm. C. /
Foster C. C. /
Flynn Jos. /
Gibbs Malcolm /
Goldman L. /
Gooch & Evans /
Hamilton Wm. /
Harman S. B. /
Harper Richard /
Henderson C. M. /
Higginbotham G. M. /
Higgins David /
Higman J. /
Holland W. H. /
Hoover A. H. /
Howarth J. G. /
Hunter Chas. /
Hunter Thos. /
Irwin Wilson / *a*
Jaffray Geo. /
Jarvis R. H. /
Jeffers J. F. /
Kay & Banks /
Kenny J. J. /
Kerr Thos. /
Kirkpatrick A. M. M. /
Lawson Jos. /
Lee W. A. & Son /
Lomnitz E. J. /
Love & Hamilton /
Love Richard /
Lovell Robert /
Lyon Geo. S. /
McCabe William /
McCord A. T. a
McCracken Thos. /
Macdonald J. K. /
McMurrich Geo. /
Magurn J. B. /
McIntyre W. T. /
M'Murphy Wm. J. /
Matson R. H. /
Maughan John & Sons /
Medland & Jones / *a*
Merritt H. K. /
Miller James W. /
Moffatt & Co. /

Morrison J. /
Muntz & Beatty /
Orr W. H. & Sons /
Pearson Bros. /
Perry A. D. /
Pringle Jas. /
Pringle T. M. /
Pyke G. J. /
Reed J. B. /
Reed J. C. /
Ronne G. W. /
Scadding E. A. /
Scott & Wamsley /
Shaw Samuel /
Short W. B. /
Sims W. A. /
Smith A. W. /
Smith Chas. P. /
Sutherland H. /
Thayer Ira E. /
Thompson J. G. Man-
ager Lancashire Insurance
Co.
Troy John L. /
Walton & Locke /
Wickens R. / *m*
Wilson P. T. /
Wood G. W. /
Wood & Kirkpatrick /
Wright A. Manager Lon-
don and Lancashire F. Ins.
Co.
Wyatt H. F. /

TRENTON

Grass R. /
Hawley A. W. /
McCabe T. /
Peck Jas. H. /
Rose John C. / *a*
Stewart J. H. /
Urquhart Angus /
White Geo. A. /
Whittier H. /
Wilson H. B. /
Young G. / *a*
Young J. B. /

WALKERTON

Astley Chas. /
Butler W. E. /
Green W. A. /
Klein John /
Leggett John /
McKay H. B. /
Millions Robt. /
Perdue W. H. T. /
Robertson N. /
Rothwell J. A. /
Shuttleworth A. /
Stovel C. W. / *a m pg*
Telford W. K. / *a*
Tindall W. / *m pg*

WALLACEBURG

Chubb Chas. / *a m pg a l*
Gillard & Riddell / *l m a pg*
Laird A. G. /

WALTER'S FALLS

Dayman Wm. /

WATERLOO

Bechtel B. E. /
Buckbrough D. /
Carthew W. /
Hughes J. B. /
Muir J. M. /
Raymo W. /
Rockel A. /

WATFORD

Bodaly John /
Fuller W. S. /
Hume J. H. / *a pg a*
Kerfoot T. /
White John /

WELLAND

Buchner Wm. /
Hill J. F. /
Swayze & Son / *a l pg*
Thompson A. /
White A. E. /

WELLINGTON

Brown Jonathan *f m*
Brown J. T. & Son *f m*
Flayler S. W. *f*

WHITBY

Burns & Howden *f*
Fairbanks Levi *f*
Gibson F. *a s*
Gibson Yeomans *f*
Hatch F. *f*
Johnson W. H. *f a l m p g*
s b t
Mudge Fred *f*
Pringle W. B. *f*
Taylor H. B. *f*

Warren E. D. *f m*
Willis R. *f*

WINDSOR

Bartlett James *f*
Connolly & Kendall *f l m p g*
s b t
Dupois S. *l*
Hanrahan W. *l*
McGregor Wm. & Son *l*
Morton R. M. *f l a m p g s b*
Onelette Bros. *f*
Prowse G. K. *f*
Reynolds R. A. *f l p g m a*
ls

WINNHAM

Davis Henry *f*

Dawson Alex. *l*
Dickson John *f*
Forbis Theo. *l*
Martin D. E. *l*
Morton J. A. *f*
Ritchie John *f*
Ross Alex. *l*
Vonhill Samuel *l*

WOODSTOCK

Beard Chas. L. *f*
Brown I. Henry *f l*
Charles D. H. *f*
Clarke W. G. *l*
Dickert H. S. *l*
Eden Geo. C. *f l*
Fletcher Jos. *l*

Fraser G. *l*
Hall John *l*
Hill James M. *f l*
Kemp C. *l f*
Knight R. W. *f l*
McKay J. A. *l*
McKenzie J. A. *f l*
McLeod D. A. *f l s b p g a*
McQuig C. M. *f l*
Martin F. C. *f*
Millman W. H. *f l*
Parker T. H. *f*
Philip Hart *l*
Sawtell R. W. *f*
Scarff J. S. *f l*
Wadland J. V. *f p g*
Willis E. *f l*
Wright J. M.

PRINCE EDWARD'S ISLAND.**CHARLOTTETOWN**

Arnaud F. H. *f*
Balderson B. *f*
Beer E. H. *f l*
Brow E. R. *f l a*
Carvell Bros. *f m*
Clarke W. W. *m*

Des Brisay & Stewart *f l a*
Farquharson D. *l*
Fitzgerald R. R. *f*
Hazard F. L. *l*
Hazard Horace *f m*
Hyndman F. W. *f l m*
Maceachern John *f l a*
McLean A. A. *l*

McLean Wm. *f l*
Trainor M. *f m a*

SUMMERSIDE

Anderson A. L. *l*
Arbuckle John *l*
Campbell Alex. *f*
Green W. S. *l*

Hunt R. *f l m*
McNeil Hugh I. *l*
McQuarrie Neil *l*
Massey H. J. *l*
Morris Leonard *l m p g a*
Rogers A. C. *l*
Starent H. B. *f l*
Wyatt J. E. *f l*

QUEBEC.**BEDFORD**

Currie E. F. *f l a*
Gough J. H. *f l s*
Rolland J. T. *f*
Saunders F. C. *f*
Shelties W. A. *f*

COATICOOKE

Adams A. F. *f*
Chagnon H. C. H. *f*
Gutting Arthur H. *f l*
Fraser John *f l*
Humphrey S. B. *f a l p g l s*
Roy A. B. *f*
Thurtleff W. L. *l a*
St. Pierre George H. *l a*
Shurtleff W. L. *l a*

COWANSVILLE

Arsenault F. P. *l*
Baker Stevens *f*
Haskell B. A. *f l a s c p g l s*
Lawrence E. E. *f l*
Stinehour J. P. *f*
Taber C. P. *f l*

HULL

Johnston W. *f*
Simon D. C. *f l a*

JOLIETTE

Derome L. A. *f l m a*
Dubeau Geo. *f l a*
Riche & Provost *f l m a*

LACHUTE

Caldar Chas. *f l*
McGregor D. *l*
Raitt W. Jas. *f l p g*
Simpson W. I. *f l a*
Valois E. T. *f l p g a*
Walker J. G. *f l p g a*

LAUZON

Bouchard B. *l a*
Bourges R. G. *l*
Dion F. X. *l a*
Vien G. S. *f l a*

LE BOULEMENS

Tremblay J. A. *f l*

LEVIS

Dumontie J. A. *f*
Lamontague Theo. & Co. *f*
Lemieux A. *f*
Mercier J. E. *f*
Roy J. E. *f*
Thompson Joshua *f*

MONTREAL

Alexander J. R. *l*
Ault Chas. *l*
Bamford & Carson Fire
Ins., 61 St. Francis Xavier
st
Bond E. L. *f m p g*
Brown B. Hall *l*
Brown Fayette *l*
Burke David *l*
Christmas T. H. Mgr.
Etna Life Ins. Co.
Cowley E. A. *l*
Cunningham Wm. *ls*
Davidson Thos. *f*
Evans & McGregor *f m*
Grose J. A. *f*
Garon P. Manager La
Canadienne Life Ins. Co.
Hampson Robt. *f m*
Heaton E. P. Manager
Guardian F. & L. Assur.
Co., Ltd.
Hinshaw M. C. *f*
Hudson T. H. *f*
Ingils A. *l*
Johnson O. R. G. Fire
Insurance, 42 St. John st
Johnson H. J. *l*
Johnson F. H. *l*
Joseph W. J. *l*
Kavanagh Walter *f*
Lacy E. D. Resident Mgr.
Imperial Ins. Co., Ltd.
Lewis Lansing *f*
Lily E. A. *f*
Logan R. J. *l*
McHenry G. H. *f*
Marling J. W. *f*
Molson J. W. *l*
Mongeneis, Bolvin & Co. *p g*
Morrissette T. L. *f*
Mudge H. J. *l*
Munderloh & Co. *m*
Nichols A. *m*
Parkins Frank F. *l a*
Patterson & Son Mgrs.
Phoenix Assurance Co.
Popham John *m*
Popham H. R. *m*
Ramsey A. *p g*
Ramsey W. M. *l*
Rawlings Edward
Riley J. J. *m p g*
Routh J. H. & Son *f l m*
Selby, Rolland & Lyman *l a*
Simpson Mrs. H. D. *l*
Sinton J. C. *f*
Smith G. F. C. *f*

Smith & Tatley *f*
Stanciliffe F. Manager
British Empire L. Ins. Co.
Stearns S. P. *l*
Tatley Wm. *f*
Tyre E. W. Mgr. Northern
Assurance Co.
Wood & Evans *f m*

NICOLET

Beaubien Chr. M. *f*
Belair L. *l*
Chillas H. A. *f l m a*
Houle N. P. *l*
Rousseau J. B. A. *f l*
St. Germain F. H. *f l*

ORMSTOWN

Bartlett E. E. *f l*
Cairns S. R. *l*
Fontaine E. *f l*
Gale H. E. *f l*

QUEBEC

Bruneau J. G. *f l a*
Champion C. P. *f l*
Champion W. *f*
Clint W. *f*
Drum S. Wilson *l p g a*
Fraser A. *m*
Fraser A. J. *t*
Fraser W. *f l a*
Giroux & Cote *f l*
Guay C. *l*
Holloway F. *f l m a p g*
Hudson L. D. *l*
Hunt, Weston & Son *f*
Laird John *f l*
Mahoney T. H. *f l a*
McGie Daniel *f*
McPherson W. M. *f*
Mitchell R. *m*
Morrissette J. B. *f l a*
Murphy, Owen & Nephew *f*
m
Pennec F. *l*
Roy Thomas *f*
Sewell H. H. *f l*
Smith David *l a*
Tessier L. *l a*
Thompson D. C. *f*
White H. R. *f*

RICHMOND

Bangs C. A. *l*
Bernard E. S. *f l a*
Campbell Chas. *l*
Dalton J. Albert *f*
Desaulniers Chas. N. *f l a*
Dresser Geo. F. *f*
Ewing John Jr. *f l a*

RIVIERE DU LOUP

Bouchard C. F. *f l a*
L'Esperance P. A. G. *l f a*
Levesque Jos. *f*
Roy J. A. *f*
Tutu Alex. *f*

ROCK ISLAND

Flint J. T. *f*
Gage J. A. C. *f*
Hovey E. W. *f l*
Mansur C. H. *f*
Taylor J. E. *f*

ST. HYACINTHE

Bartels F. *f l a s p g*
Bernier & Morin *f*
Boisseau F. X. *f l*
Carreau S. *f l a*
Desautels J. C. *f*
Henshaw G. H. *f l p g a*
Lapierre Chas. *l*
Nault J. *f l*
Pagnuel H. *f l*

ST. JOHNS

Donaghy Robert *f l a p g*
Lavoie Jas. *f l a p g*
O'Cain James *f l a p g*
Perchard H. G. *f*

SHERBROOKE

Archambault J. A. *f*
Dresser W. S. & Co. *f l a p g*
Hale E. C. *f*
Morkill & Co. *f*
Ridout & Lyster *l a*
Royer & Burrage *f l*
Woodward A. G. *f*

SOREL

Desy W. L. M. *f l m a p g*
Johnston F. W. *f*
Morgan James *f l m a*

VALLEYFIELD

Fortier S. *f l a p g*
Joron R. S. *f l a*
Low John Jr. *l*
Thibault G. H. *f l*

WATERLOO

Harvey & Call *f l a*
Hill Otis W. *f l*
Jadom L. *f l*
Kemp Edwin *f*
Ladoux P. *f*
Shaw R. E. *f l*
Tartre J. R. *f l a*
Wallace Jos. *f*

INDEPENDENT ADJUSTERS.

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128 a

APPENDIX.

FIRE PROTECTION.

A COMPILATION SHOWING THE
WATER SUPPLY AND FIRE APPLIANCES
OF THE
Cities and Villages of the United States.

CORRECTED TO JUNE 20, 1894.

INTRODUCTION TO APPENDIX

FIRE PROTECTION AND WATER SUPPLY.

THE statistics given herewith cover the whole field of water-works systems and fire department equipments of the cities, towns and villages of the United States and Canada, and is the only publication of its kind in existence. The information has been compiled with great care for the present edition and corrected to June 20. Reports have been had from every place named in the work; the statistics as printed last year corrected to date, and many new places not heretofore reported included in the statistics. Circulars were sent to every place having a population of 1000 or more, and wherever a new fire department was reported among the smaller towns, it has been included in this work. The reports will be found fuller than ever, both for fire department equipment and water supply details. This is the fourteenth year of publication of the work, and during all these years it has been the aim of the publishers to improve upon it and to extend the list of places where fire protection and water supply have been put in since the previous publication, and it is now the most perfect statement of the fire protection and water supply of the different cities and towns of the country that has ever been prepared. These reports have already proved invaluable to fire underwriters, manufacturers and others, and it is our purpose to extend and improve them from year to year. The population as given in these reports is taken from the census of 1890.

We desire to extend our thanks to all persons who have aided us in collecting these statistics, either by filling out the blanks sent to them or otherwise contributing to secure accuracy.

ALABAMA.

Alexandria City, Tallapoosa Co., population 679; fire area 1-2 mile from center of city; mercantile buildings, brick and stone, 1 to 3 stories; dwellings, wood, 1 and 2 stories; has no organized fire department. 1 chemical and water engine combined.

WATER SUPPLY—Cisterns, cap 40,000 gals each. Mayor, B. L. Dean; city clerk, W. L. Waters.

Anniston, Calhoun Co., population 9,998; fire area 75 acres; mercantile buildings, brick, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 3,700 ft, inferior 600 ft; 3 horses, value \$225 each; value of fire department equipment \$15,000; value of buildings occupied \$5,100; ann expenses of department \$2,800; membership 100, paid full time 3; Gamewell alarm; 13 street boxes; 4 fire companies. Chief engineer, Jas. J. MacIntyre.

WATER SUPPLY—Source, springs, 8 miles S. W. of city; system, pumping to reservoir; reservoir cap 6,000,000 gals; pumping engines, dy cap 6,000,000 gals; hydrants 143, Chapman; pipe C. 1. 27 miles, 4 to 20 in dia; quality of water soft; pressure 65 to 110 pounds; waterworks owned by Anniston Water Supply Co.; original cost to construct \$300,000. Supt, H. B. Rudisill.

Athens, Limestone Co., population 940; dwellings, brick and wood, 1 and 2 stories; no department; 2 chemical hand extinguishers.

WATER SUPPLY—Springs and wells.

Attalla, Etowah Co., population 1,254; fire department not reported.

WATER SUPPLY—Source, springs; system, pumping to standpipe and direct; reservoir cap. 50,000 gals, standpipe cap. 58,000 gals; pumping engines, dy cap. 500,000 gals; hydrants 31; pipe, C. 1. 5 miles, 4 to 8 in dia; pressure, average 80 pounds; waterworks owned by city; original cost to construct \$25,000; interest on bonds 6 per cent. Supt, J. M. Sully.

Bessemer, Jefferson Co., population 6,000; fire area 60 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 500 ft, inferior 300 ft; 2 horses, value \$500; value of fire department equipment \$2,500; value of buildings occupied \$5,000; total ann expenses of department \$385; total membership 25, paid part time 25; telephone and whistles alarm. Chief engineer, H. S. Long.

WATER SUPPLY—Source, spring 3 miles from city; system, pumping either direct or through standpipe; 2 dams or reservoirs, cap 9,200,000 gals, from which the water flows to pumping reservoir; reservoir cap, 206,000 gals; standpipe cap 235,000 gals; 2 pumping engines, dy cap 1,000,000 gals each; hydrants 56; pipe castiron 12 miles, 4 to 12 in dia; pressure, domestic 45, fire 75 to 80 pounds; waterworks owned by company; original cost to construct \$125,000; expenses of construction to date \$137,322; ann expenses \$7,000. Supt, G. H. Stevenson.

Birmingham, Jefferson Co., population about 40,000; mercantile buildings, brick and stone, 1 to 6 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted in fire limits; has fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 6 chemical extinguishers, one 65 ft aerial truck, 3 reels, 2 hose wagons; hose, rubber good 2,000 ft, inferior 1,000 ft, cotton good 4,000 ft, inferior 1,000 ft; 15 horses, value \$3,500; value of fire department equipment \$15,000; total annual expenses of department \$30,000; total membership 28; paid full time 28; Gamewell electric alarm; street boxes 38; total no. of fire companies 5, 1 hook and ladder company. Chief engineer, J. T. Mullen.

WATER SUPPLY—Source, Cahaba river and Five Mile creek; system, pumping to reservoir and direct; reservoir cap 119,000,000 gals; dy cap 21,000,

000 gals; 243 hydrants; pipe 67 miles, 2 to 30 in dia; quality of water excellent; pressure, domestic 50 to 60, fire 80 to 90 pounds; works owned by company; cost to construct \$1,360,000. Supt, W. J. Milner.

Bridgeport, Jackson Co., population 2,000; fire area 50 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 1,000 ft; value of fire department equipment \$2,000, value of buildings occupied \$2,500; total annual expenses of department \$400; total membership 75, volunteers; bell alarm. Chief engineer, E. W. Roylance.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 1,000,000 gals; hydrants 42; pipe 14 miles, 4 to 12 in dia; 45 valves; 125 meters; galv iron service pipe; pressure 125 pounds; waterworks owned by company; original cost to construct \$75,000. Supt, Wm. H. Brundige. (Will put in this spring 2 pumps, capacity 1,000,000 gals each.)

Camden, Wilcox Co., population 600; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no organized department.

WATER SUPPLY—Source, wells.

Clayton, Barbour Co., population, including village 11,000; fire area 40 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; shingle and tin roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hose carriage; hose, cotton good 600 ft, inferior 800 ft; value of fire department equipment \$8,000; value of buildings occupied \$1,200; membership 18, paid part time 1, volunteer members 17; bell alarm. Pres, F. Norman; foreman, J. R. Andrews; captain, M. M. Strickland.

WATER SUPPLY—Source, wells and cisterns; cap of cisterns 27,000 gals; reservoir formed by damming creek; cap 20,000 gals.

Columbia, Henry Co., population 1,200; fire area 1 sq mile; mercantile buildings, brick, 1 and 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated.

WATER SUPPLY—Source, artesian well. Civil engineer, A. A. Thompson. Negotiating with company to put in waterworks at early date to be owned by city.

Cullman, Cullman Co., population 1,200; fire area 3-4 sq mile; mercantile buildings, brick, wood and iron, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck; hose, cotton good 350 ft; other apparatus, rubber buckets; value of fire department equipment \$1,000; value of buildings occupied \$200; total ann expenses of department \$147; total membership 20, volunteers; bell alarm; 1 hook and ladder company. Chief engineer, J. J. Kullmann.

WATER SUPPLY—Source, wells and tanks. Mayor, S. H. Parker; town clerk, Peter Winkebach.

Dadeville, Tallapoosa Co., population 1,000; mercantile buildings, brick, 2 stories; shingle roofs permitted; dwellings, wood, 1 story; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Wells and cisterns.

Decatur, Morgan Co., population 3,300; fire area 20 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; have fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 3 hose reels; hose, cotton good 1,500 ft, inferior 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; volunteer members 40; alarm, steam whistle at night, electric bell for day, operated by Bell Telephone Co., 1 hook and ladder com-

pany. Chief engineer, N. Terry Robertson; chairman of fire and water com, R. H. Adams.

WATER SUPPLY—Source, Tennessee river and 3 springs under pumping station; system, pumping into standpipe; standpipe cap 282,000 gals; 2 duplex pumping engines, dy cap 2,500,000 gals each; 180 hydrants, double; mains 16 miles, 30 to 10 in dia; pressure, domestic 55, fire 100 pounds; telephone communication with pumping station; water-works owned by company. Supt, R. H. Adams.

Demoelia, Marengo Co., population 2,000; fire area 29 acres; buildings, brick and wood, 1 and 2 stories. Fire department—2 Babcock extinguishers, 60 leather buckets, 1 hook and ladder truck; value of apparatus and supplies \$1,500; 50 members, volunteers; ann expenses \$75; bell alarm. Chief engineer, L. B. Braswell.

WATER SUPPLY—Source, Artesian wells and cisterns; 1½ miles street mains. (Will construct works this year.)

Eufaula, Barbour Co., population 4,394; mercantile buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,400 ft; siamese couplings used; value of equipment \$10,000; value of buildings occupied \$5,000; total membership 150, volunteers; bell alarm. Chief, O. H. Peacock.

WATER SUPPLY—Source, springs, flowing artesian well; system, pumping to standpipe and direct; Davidson pumping engines, dy cap 2,000,000 gals; 58 hydrants, Coffin Valve Co.; pipe 8 miles, 4 to 10 in dia; 41 valves, Coffin Valve Co; quality of water good, filtration natural; pressure domestic 70, fire same; water-works owned by company; cost to construct \$80,000; Int on bonds 6 per cent. Managing director, A. M. Baldwin; secy and supt, R. H. Walker; mayor, G. L. Comer; city clerk, G. A. Roberts.

Evergreen, Conecuh Co., population (coextensive with town) 1,783; fire area 10 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine; value of fire department equipment \$125. Chief engineer, W. D. Atkinson.

WATER SUPPLY—Source, wells and pumps.

Florence, Lauderdale Co., population 6012; mercantile buildings, stone and brick, 2 and 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; rubber good 500 ft; 1 horse; value of fire department equipment \$1,500; value of buildings occupied \$15,000; expenses of department past year \$350; total membership 13, volunteers; bell alarm. Chief, L. P. Fleming.

WATER SUPPLY—Source, Cypress creek, 3 miles north of city; system, Holly, and pumping to standpipe; standpipe cap 300,000 gals; Worthington pumping engines, dy cap 5,000,000 gals; 103 hydrants; pipe 17 8-4 miles, 6 to 18 in dia; pressure, domestic 60, fire 90 pounds; works owned by company. Supt, T. A. Howell.

Fort Payne, Dekalb Co., population 1,000; fire area ½ mile sq; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 200 ft, inferior 400 ft; cotton good 100 ft, inferior 200 ft, linen good 400 ft, inferior 100 ft; value of fire department equipment \$500; value of buildings occupied \$100; total membership 12, volunteers. Chief engineer, W. T. Fuller.

WATER SUPPLY—Source, spring, center of city; system, pumping to standpipe; standpipe cap 265,000 gals; pumping engines, dy cap 1,000,000 gals; 52 hydrants; pipe 10 miles, 4 to 10 in dia; service pipe galv. iron; pressure, domestic 95, fire 120 pounds; waterworks owned by company; original cost to construct \$40,000; expenses of construction to date \$65,000; ann expenses \$2,000. Supt, L. D. Hatch.

Gadsden, Etowah Co., population 5,000; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton

good 250 ft, rubber good 1,500 ft; 1 horse, value \$200; value of fire department equipment \$3,000; value of buildings occupied \$400; membership 50, volunteers; bell alarm. Chief engineer, W. P. Lay.

WATER SUPPLY—Source, Coosa river; system, pumping to reservoir, cap 2,000,000 gals; Deane pumping engines, dy cap 1,000,000 gals; 64 hydrants; pipe 7 miles, 4 to 10 in dia; pressure 67 pounds; works owned by company; cost to construct \$65,000; cost to date \$75,000; ann expenses \$3,000; Int on bonds 8 per cent. Supt, M. E. Jones; city engineer, P. T. Fitzgerald.

Greensboro, Hale Co., population 1,759; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber 800 ft stand; total membership 45, volunteers. Chief engineer, Charles E. Waller.

WATER SUPPLY—Source, 2 artesian wells; system, pumping to standpipe and direct to mains; reservoir cap 60,000 gals; standpipe cap 45,000 gals; pumping engines, dy cap 1,000,000 gals; 20 hydrants; pipe 3 miles, 3 4-6 in dia; cost to construct \$20,000; ann expenses \$1,000.

Greenville, Butler Co., population 3,000; fire area 40 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; total ann expenses of department \$300; total membership 103 volunteers; bell alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, J. O. Bryan.

WATER SUPPLY—Source, creek and artesian well 1-4 mile east of town; system, pumping to standpipe and direct; standpipe cap 75,000 gals; well, 300,000; 2 pumping engines, dy cap 750,000 gals; 48 hydrants; pipe 5 1-3 miles, 4 to 8 in dia; 38 valves; pressure, domestic 58 to 75, fire 100 to 130 pounds; water-works owned by company; original cost to construct \$30,000. Supt, J. T. Steiner.

Huntsville, Madison Co., population 9,000; fire area 4,000 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood; 1 1-2 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 1,000 ft; cotton good 500 ft; 3 horses, value \$600; value of fire department equipment \$1,000; value of buildings occupied \$8,000; total ann expenses of department \$2,120; total membership 45, paid full time 2, paid part time 43; bell alarm. Chief engineer, O. K. Stegall; chairman of fire and water com, J. R. Stegall.

WATER SUPPLY—Source, spring; system, pumping direct; pumping engines, dy cap 5,000,000 gals; 43 hydrants; pipe 4 to 12 in dia; pressure, fire 90 pounds; water-works owned by city. Supt, B. W. Blake.

Jacksonville, Calhoun Co., population 1,500; fire area 30 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, inferior 300 ft; value of fire department equipment \$500; value of buildings occupied \$400; total ann expenses of department \$35; total membership 28, paid full time 18, paid part time 10; bell alarm. Chief engineer, C. H. Nesbitt; chairman of fire and water com, J. T. Nunley.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 200,000 gals; 15 hydrants; pipe 6 miles, 2 3-4 in dia; pressure, domestic 35 pounds; works owned by company; original cost to construct \$17,000; expenses of construction to date \$19,000; ann expenses \$150. Supt, C. D. Martin.

La Fayette, Chambers Co., population 1369; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, 1 story; fireworks ordinance; wooden roofs permitted. No fire department, bucket brigade.

WATER SUPPLY—Source, wells and springs.

Livingston, Sumter Co., population 850; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; bucket brigade.

WATER SUPPLY—Source, private wells, also 5 public wells.

Marion, Perry Co., population 2,000; fire limit 50 acres; fireworks ordinance; mercantile buildings, brick, 2 stories; dwellings, wood, 2 stories. Fire department—2 chemical hand extinguishers, 1 hook and ladder truck and a 100 gal chemical engine; hose, rubber good 200 ft, poor 100 ft; value of apparatus and supplies \$3,000; 1 building owned by department, value \$150; ann expenses \$50; bell alarm. Chief, M. M. Barritt.

WATER SUPPLY—Wells; system to be installed by Mar. 1st 1894.

Mobile, Mobile Co., population 42,000; fire area 10,000 acres; mercantile buildings, brick, 3 to 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, salvage corp; hose, cotton good 6,000 ft; 15 horses, value \$3,750; value of fire department equipment \$15,000; value of buildings occupied \$35,000; total ann expenses of department \$19,000; membership 24, paid full time, volunteer members 25; Gamewell alarm; 41 street boxes. Chief engineer, Matt Sloan. (Additions to be made this year, hook and ladder truck and salvage wagon.)

WATER SUPPLY—Source, springs, 11 miles from city; system, pumping to reservoir, dy cap 12,000,000 gals; pumping engines, daily cap 6,000,000 gals each; 270 hydrants; pipe 37 miles, 6 to 24 in dia, 1,500 taps; quality of water good; fire pressure 85 pounds; works owned by individuals; cost to construct \$700,000. Supt, W. C. Pooley.

Montgomery, Montgomery Co., population 30,000; fire area 580 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 2 hose wagons; other apparatus, 2 jumpers; hose, rubber good 2,400 ft, inferior 6,000 ft, cotton good 2,700 ft, inferior 200 ft; 16 horses, value \$3,200; value of fire department equipment \$40,000; value of buildings occupied \$40,200; total ann expenses of department \$14,162.35; total membership 365, paid full time 12, volunteer members 353; gamewell electric alarm; 31 street boxes. Chief engineer, W. H. Kelley.

WATER SUPPLY—Source, 6 artesian wells; system, pumping to standpipe, standpipe cap 417,000 gals; reservoir cap 2,000,000 gals; pumping engines, dy cap 8,000,000 gals; pipe 42 miles, 4 to 24 in dia; 203 double and 1 four way city hydrants, 24 private hydrants; quality of water good, no filtration; pressure, domestic 45 to 106, fire 150 pounds; works owned by company; cost to construct \$700,000; int on bonds 6 per cent. Supt, Fred Crosby.

New Decatur, Morgan Co., population abt 3,600; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are not permitted inside fire area; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, all kinds; hose, cotton good 700 ft, inferior 800 ft; value of fire department equipment \$900; value of buildings occupied \$200; total ann expenses of department \$20; total membership 45, volunteers; bell and whistle alarm. Chief engineer, J. D. McCluskey. L. & N. Railway Hose Co, one reel carrying 800 ft standard hose; 50 members responds to city alarms.

WATER SUPPLY—Same as Decatur.

Opelika, Lee Co., population 3,703; fire area 50 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hose carriage; hose, cotton good 1,400 ft, inferior 200 ft; value of fire department equipment \$3,300; value of buildings occupied \$800; total ann expenses of department \$475; total membership 20, paid full time 1, remainder volunteers; bell alarm. Chief engineer, Charles Shaefer; chairman fire and water com, H. L. Dougherty.

WATER SUPPLY—Source, spring; system, pumping to standpipe; reservoir cap 1,500,000 gals; standpipe cap 153,000 gals; pumping engines, dy cap 1,500,000 gals; 60 hydrants; pipe, Phillips Patent 7 miles, 4 to 10 in dia; pressure, 65 pounds; works owned by company; cost to construct \$75,000

ann expenses \$1,500; int on bonds 6 per cent. Supt, D. M. Wimman.

Oxford, Calhoun Co., population 1,473; fire area 22 acres; mercantile buildings, brick mostly, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 350 ft, 150 ft poor; value of fire department equipment \$500; value of buildings occupied \$150; total expenses \$125; total membership 28, all volunteers; bell alarm; 1 fire company. Chief engineer, A. C. Stucky.

WATER SUPPLY—For system see Anniston. 25 hydrants.

Ozark, Dale Co., population 2,500; mercantile buildings, all bldgs being built are brick, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, all kinds; hose, cotton good 500 ft, inferior 50 ft, rubber good 450 ft; value of fire department equipment \$1,200; total membership 30, volunteer members 30; bell alarm. Chief, T. W. Chaffin.

WATER SUPPLY—Source, 2 springs; location 1.4 mile E. of town; system, pumping to standpipe; reservoir cap 52,000 gals; standpipe cap 67,000 gals; 14 hydrants; pipe 2 miles, 4 to 6 in dia; quality of water good; pressure, domestic 30, fire 40 pounds; waterworks owned by city; cost to construct \$10,000; ann expenses \$800. Supt, I. M. Valentine.

Phoenix City, Lee Co., population 3,700; fire area about 300 acres; buildings, wood, 1 story; wooden roofs permitted; fireworks ordinance; no organized fire department, but one contemplated.

WATER SUPPLY—Source, wells.

Piedmont, Calhoun Co., population 1,200; fire area 1 mile; mercantile buildings, brick, 2 stories; private, pine, 12 to 14 ft; roofs, iron or tin; no fireworks ordinance; causes of fire investigated. Fire department—1 reel hand engine, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$600; volunteer members 20; hand bell alarm. Chief, J. J. Eulanka.

WATER SUPPLY—Source, spring; system, pumping through mains into reservoir; reservoir cap about 150,000 gals; 21 hydrants; pipe 4 miles; pressure, domestic and fire 80 pounds; waterworks owned by company; cost to construct \$35,000; ann expenses \$350. Supt, Wm. W. Waring.

Prattville, Autauga Co., population including village, 3,143; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, leather good 200 ft, linen good 1,100 ft, inferior 200 ft; value of fire department equipment \$750; total ann expenses of department \$50; total membership 75, volunteers; bell alarm; 2 fire companies, 1 engine company, 1 hook and ladder company. Chief engineer, Daniel Pratt.

WATER SUPPLY—Source, cisterns and creek.

Selma, Dallas Co., population 7,622; buildings, brick, stone and wood; fireworks ordinance. Fire department—1 hand engine, 1 steam engine, 2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; 1,600 ft hose in good condition, 1,000 ft poor; 5 fire wardens (act as patrol); 5 volunteers; 6 horses. John G. Norris.

WATER SUPPLY—Source, 3 artesian wells; system, gravity and pumping to standpipe, cap 180,000 gals; cap of reservoirs 1 of 150,000 and other 6,000,000 gals; pumping engines, dy cap 2,500,000 gals; 119 hydrants; pipe 14 miles, 12 to 4 in dia; pressure, domestic 55, fire 100 pounds; ann expenses \$5,000. Supt, Thos. H. Gatchell. Pumping station connected with fire department by electric annunciator.

Sheffield, Colbert Co., population 2,750; fire area 75 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck; 2 horses, value \$300; value of fire department equipment \$500; value of buildings occupied \$250; total membership 30, volunteers; whistles alarm. Chief engineer, L. A. Lagomarrino.

WATER SUPPLY—Source, Tennessee river; system, pumping to reservoir; reservoir cap 1,000,000

gals; pumping engines, dy cap 1,000,000 gals; pipe 10 miles; pressure 45 pounds; works owned by company; cost to construct \$35,000. Supt, Thos. Golhard.

Spring Garden, Cherokee Co., population 1,404; fire area 3 acres; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—150 ft good cotton hose; value of buildings occupied \$15,000; total ann expenses of department \$6,500; total membership 8, paid full time; 1 fire company. Chief engineer, B. Tucker.

WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 50,000 gals; pumping engines, dy cap 3,000 gals; 1 hydrant; pipe 1 mile, 2 and 3 in dia; pressure, 60 to 70 pounds; works owned by company; original cost to construct \$1,500. Pres, T. N. White, M. D.

Talladega, Talladega Co., population 3,500; fire area 2 sq miles; mercantile buildings, brick and metal in fire limit, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, rubber good 2,000 ft, cotton 1,000 ft; 4 horses, value \$1,000; value of fire department equipment \$4,000; value of buildings occupied \$2,000; total ann expenses \$2,000; total membership 125, 5 paid full time, 120 volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief, V. L. Adams.

WATER SUPPLY—Source, spring; system, pumping to standpipe, cap 125,000 gals; height 150 ft; 8 pumps; 48 hydrants; 4 miles mains, 2 to 8 in dia; pressure 75 to 150 pounds; cost of works \$40,000; Talladega Gas and Water Company owners. Supt, W. W. Haralson.

Troy, Pike Co., population 4,500; fire area about 5 acres; mercantile buildings, brick, not over 5 of wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, good 1,500 ft, inferior 400 ft; value of fire department equipment \$6,000; value of buildings occupied \$600; total ann expenses of department \$250; volunteer members 50; bell alarm. Chief, B. M. Talbot.

WATER SUPPLY—Source, 3 cisterns, cap 80,000 gals each; contract for works given; will be completed this year.

Tuscaloosa, Tuscaloosa Co., population 4,315; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose wagons; other apparatus, 1 hose reel, 1,000 ft hose; value of fire department equipment \$1,700; value of buildings occupied \$3,000; membership 35, all volunteers; bell alarm. Chief, H. J. King.

WATER SUPPLY—Source, Black Warrior river; system, pumping to standpipe and direct; standpipe cap 168,000 gals; pumping engines, dy cap 4,000,000 gals; 63 hydrants; pipe c. 1.10 miles, 4 to 10 in dia; galv iron service pipe; pressure, domestic 60, fire 100 pounds; works owned by company; original cost to construct \$90,000; ann expenses \$3,500. Supt, Wm. F. McCormick.

Tusculum, Colbert Co., population 2,491; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck.

WATER SUPPLY—Source, wells, cistern and spring.

Tuskegee, Macon Co., population 1,803. Fire department—1 chemical engine, 1 hook and ladder truck; 100 ft rubber hose good; 60 men, volunteers.

WATER SUPPLY—Source, private wells.

Uniontown, Perry Co., population 2,200; mercantile buildings, brick and iron, 1 and 2 stories; private, wood, outside fire limits, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; force pump at waterworks; hose, rubber good 800 ft, inferior 150 ft, cotton good 400 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,500; total membership 60, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, B. F. Harwood; chairman of fire and water com, J. C. Welch.

WATER SUPPLY—Source, artesian well in center of city; system, pumping to reservoir and direct; reservoir cap 75,000 gals; standpipe cap 30,000 gals; dy cap 150,000 gals; 31 hydrants; pipe 3 miles, 4 to 6 in dia; quality of water soft, not filtered; pressure, domestic 40, fire 100 pounds; works owned by city; cost to construct \$22,000; ann expenses \$800; int on bonds 6 per cent. Water com, J. C. Welch.

Woodlawn, Jefferson Co., population 3,000; fire area about 640 acres; mercantile buildings, pine, 1 story; private, pine, 1 story; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck; hose, rubber good 35 ft, linen rubber lined good 350 ft; value of fire department equipment \$1,000; value of buildings occupied \$200; total membership 25, volunteers; bell alarm. Chief engineer, J. B. Wood.

Places that have a population of 1,000 and upward that have no fire protection: Cuba, Sumter Co., population 1,189; Gainesville, Sumter Co., 1,200; Woodland Jefferson Co., 1,506; Notozulga, Macon Co., 2,120.

ALASKA.

Juneau, District No. 7; population 5,000. Fire department not reported.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap one 30,000 gals, other 112,000 gals; 15 hydrants; pipe wood, 6,500 ft, 4, 6 and 8 in dia. Puget Sound Pipe Co.; 2 in galv service pipe; pressure, domestic 50 pounds; works owned by F. I. Lewis; expenses of construction to date \$51,000; ann expenses \$1,900. Supt, Philip Starr.

Sitka, District No 1; population 1,190; fire area 100 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; shingle roofs principally

used; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 hook and ladder trucks, 1 hose carriage old, 100 buckets, 2 fire hooks, 4 fire axes; hose, rubber good 100 ft, inferior 100 ft; value of buildings occupied \$750; total ann expenses of department nominal; total membership 38, volunteers; 1 fire company. Chief engineer, Peter Callison; sec, Edward DeGroz.*

WATER SUPPLY—Source, rain water for domestic purposes; for fire use, the water from the beach or from a small creek crossing the town is used.*

ARIZONA.

Elabe, Cochise Co., population 1,535; fire area 500 yards; mercantile buildings, stone, adobe and wood, 1 and 2 stories; fireworks ordinance. Fire department—400 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 2,800 ft, inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$600; total ann expenses of department \$300; total membership 75, volunteers; electric alarm; 1 fire company. Chief, Emil Marks.

WATER SUPPLY—Source, springs; system, pumped to town through 5-inch pipe; 10 hydrants.*

Florence, Pinal Co., population about 2,000;

mercantile buildings, brick and adobe, 1 story; private, adobe, 1 story; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, Gila river, 10 miles east of town; reservoir cap 800,000 gals; cost to construct \$40,000. Supt, H. H. Benson.

Fort Apache, Apache Co., military post; population 500; fire area 12 acres; buildings, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages and buckets; 400 ft linen hose.*

WATER SUPPLY—Source, White river, 1-4 mile

south; system, pumping to reservoir; reservoir cap 80,000 gals; pumping engines, dy cap 50,000 gals; 20 hydrants; pipe 2 miles, 3 to 1 in dia; 4 valves; works owned by U. S. Government. Supt. L. L. Durfee, 1st Lieut.

Globe, Gila Co., population 1,200; mercantile buildings, stone, brick, wood, adobe, 1 and 2 stories; private, stone, brick and wood, 1 and 2 stories; wooden roofs permitted, iron used; causes of fire investigated. Fire department—ladders, hooks and buckets; hose, rubber good 300 ft; private tanks with hose and windmills all over the town.

WATER SUPPLY—Large wells and tanks.

Nogales, Pima Co., population 1,800; fire area 75 acres; mercantile buildings, stone and brick, 1 and 2 stories; private, adobe, 1 story; wooden roofs are permitted, metal chiefly used; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 250 ft; value of buildings occupied \$40.*

WATER SUPPLY—Wells, private tanks and hydrants.

Phoenix, Maricopa Co., population 8,000; fire area 6 x 4 blocks; mercantile buildings, brick, adobe and wood, 2 stories; private, brick and wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 2,000 ft, cotton good 2,000 ft; value of fire department equipment \$50,000; value of buildings occupied \$4,000; total ann expenses of department \$150; total membership 101, volunteers; bell alarm. Chief engineer, J. W. Blankenship; chairman of fire and water com, A. Clark.*

WATER SUPPLY—Source, well, 1-2 of a mile N. E. of city; system, pumping to standpipe and direct; standpipe cap 115,000 gals; pumping engines, dy cap 3,000,000 gals; 50 hydrants; pipe 16 miles, 4 to 10 in dia; pressure, domestic 43, fire 75 to 100 pounds; works owned by company. Supt, T. W. Hine.

Prescott, Yavapai Co., population 1,750; fire area 640 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,000 ft, 1,000 ft poor rubber hose; total membership 100, all volunteers; bell alarm; total number of companies 4. Chief engineer, G. H. Schnerman.

WATER SUPPLY—Source, well; system, pumping

to reservoir; reservoir cap 3,000,000 gals; pumping engines, dy cap 1,000,000 gals; 45 hydrants; pipe 9 miles, 4 to 8 in dia; 23 valves; pressure 120 pounds; works owned by city; original cost to construct \$60,000; expenses of construction to date \$80,000; ann expenses \$2,500. Supt, J. F. Mahoney.

St. Johns, Apache Co., population 1,200; mercantile buildings, brick, stone and adobe, 1 story; private, stone and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; no fire department.

Tombstone, Cochise Co., population 3,500; buildings, frame and adobe, 1 story. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages; 2,000 ft good rubber hose; value of apparatus \$8,000; 3 companies; 90 volunteer members; ann expenses \$700; bell alarm. Chief, Dan Hanley.

WATER SUPPLY—Source, streams, Huachuca mountain; system, gravity; reservoir cap mountain 1,000,000, city 1,800,000 gals; 42 hydrants; pipe W. Iron 30 miles, 6 in dia; pressure, 130 pounds; works owned by company; original cost to construct \$500,000. Supt and gen agt, J. W. Clark.

Tucson, Pima Co., population 9,000; fire area 1 mile sq; mercantile buildings, adobe, 1 story; private, adobe and wood, 1 story; wooden, roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber inferior 250 ft, cotton inferior 250 ft; value of fire department equipment \$1,500; value of buildings occupied \$2,500; total membership 60, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, D. J. Boley; chairman of fire and water com, M. G. Samaniego.*

WATER SUPPLY—Source, river, system, gravity; 50 hydrants; 13 meters; 6 miles 12 in mains; quality of water good, not filtered; pressure 35 to 50 pounds; works operated by Tucson Water Co. Pres. J. R. Watts; supt, R. N. Leatherwood; cost of works \$80,000; ann expenses \$1,200; int 8 per cent.*

Yuma, Yuma Co. Fire department not reported.

WATER SUPPLY—Source, Colorado river; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 8,000,000 gals; 3 hydrants; pipe 2 miles, 26 in dia; pressure 20 to 40 pounds; works owned by company; original cost to construct \$50,000. Mgr, H. W. Bialsdell.

ARKANSAS.

Alexander, Pulaaki Co., population 201; fire area 200 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories. Fire department none; hand pump and bucket brigade, 5 chemical extinguishers.

WATER SUPPLY—Source, spring; reservoir cap 8,000 gals; 25 hydrants; pipe 1½ miles, 3 in dia; works owned by company; expenses of construction to date \$300; ann expenses \$78. Supt, E. Koch.

Arkadelphia, Clark Co., population 3,500; fire area 3-4 of a mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 700 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; ann expenses \$50; total membership 12, volunteers; bell alarm. Chief, Emil Gillman.

WATER SUPPLY—River; system, pump to standpipe, cap 235,000 gals; Worthington pumping engines, dy cap 1,500,000 gals; 30 hydrants; pipe 6½ miles, 4 to 14 in dia; pressure, domestic 40, fire 100 pounds; water works owned by company; cost to construct \$68,000; ann expenses \$3,200; int on bonds \$3,600. Pres. M. C. Hillyer; supt, E. N. Maxwell; mayor, Geo. H. Corder; town clerk, A. S. B. Green.

Arkansas City, Desha Co., population 1,273; fire area 120 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 600 ft; value of fire department equipment \$1,100; value of buildings occupied \$800; total membership 80, paid part time 3, remainder volunteers; 1 hook and ladder company. Chief engineer, R. W. Smith.*

WATER SUPPLY—Source, Mississippi river; pumping to tank, cap 70,000 gals; dy cap 560,000 gals; hydrants 12; pipe 3 miles, 6 in mains; valves 100; quality of water good; works owned by company; cost to construct \$8,000; ann expenses \$1,500; cost to date \$9,000. Supt, L. E. Belser.

Augusta, Woodruff Co., population 950; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; causes of fire investigated. No fire department.

WATER SUPPLY—Source, river and private wells.

Batesville, Independence Co., population 2,150; buildings, stone and wood, 1 and 3 stories. Fire department—1 hand engine, 1 hose carriage; 200 ft hose.*

WATER SUPPLY—Source, wells and stream. J. E. Rosebrough, town clerk.*

Brinkley, Monroe Co., population 2,000; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, 1 hook and ladder truck, force pump; hose, good 200 ft, poor 100 ft; value of fire department equipment \$1,040; value of buildings occupied \$2,000; total membership 28, volunteers; whistle alarm; 1 hook and ladder company. Chief engineer, H. L. D. Whitson.

WATER SUPPLY—Source, cisterns; will operate works this year.*

Camden, Ouachita Co., population 2,571; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 2,500 ft; total membership 35, volunteers; bell alarm;

hook and ladder company, 1 hose company. Chief engineer, C. D. Stone.*

WATER SUPPLY—Source, Ouachita river; system, pumping to standpipe, cap 125,000 gals; pumping engines, dy cap 750,000 gals; 18 hydrants; pipe 3 1-4 miles, 4 to 6 in dia; pressure, domestic 75 to 80, fire 120 to 125 pounds; works owned by company; cost to construct \$48,000; ann expenses \$2,400. Supt, W. F. Avera.

Dardanelle, Yell Co., population 1,700; fire area 80 acres; mercantile buildings, brick, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft, poor 200 ft, rubber poor 800 ft; value of fire department equipment \$1,900; total ann expenses of department \$50; total membership 50, all volunteers; bell alarm; 4 fire companies. Chief engineer, M. S. Boyce.

WATER SUPPLY—Source, driven wells in river; system, pumping to tank and direct into mains; reservoir cap 80,000 gals; 12 hydrants; pipe 2 miles, 1 to 6 in dia; cost to construct \$5,000. City engineer, Chas. Hunt.

Fayetteville, Washington Co., population 2,942; buildings, brick and wood, 2 and 3 stories. No fire department.

WATER SUPPLY—Source, wells and cisterns; works contemplated.*

Forrest City, St. Francis Co., population 1,800; mercantile buildings, brick and wood, 1 and 2 stories. Fire department—1 hook and ladder truck, 2 chemical extinguishers.

WATER SUPPLY—Source, wells and cisterns; standpipe contemplated.*

Fort Smith, Sebastian Co., population 12,000; mercantile buildings, brick and stone, 1 to 5 stories; private, wood, 1 to 8 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 aerial truck, 2 hand extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, best rubber 2,300 ft; 7 horses, value \$1,400; value of fire department equipment \$7,500; expenses for past year \$4,000; value of buildings occupied \$10,000; total membership 100, volunteers, 5 paid full time; telephone alarm. Chief, J. J. Little.

WATER SUPPLY—Source, river; system, pumping to reservoir; reservoir cap 5,000,000 gals; standpipe 500,000 gals; 2 pumps, dy cap 2,500,000 each; 104 hydrants, Chapman; 35 miles mains, 6 to 20 in dia; pressure 40 to 90 pounds; Fort Smith Water Co, owners. Supt, Clark Kellogg.

Harrison, Boone Co., population 1,438; fire area 1 mile sq; mercantile buildings, stone and brick, 2 stories; private, wood, 1 and 2 stories; fireworks ordinance; no organized fire department.*

WATER SUPPLY—Source, Crooked creek, wells, cisterns and springs.*

Helena, Phillips Co., population 5,189; mercantile buildings, brick, iron and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 1,600 ft; 2 horses, value \$300; value of fire department equipment \$3,000; value of buildings occupied \$5,500; total ann expenses of department \$300; total membership 75, paid full time 4, volunteers 71. Chief engineer, N. J. Fritzton.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir and direct; reservoir cap 2,000,000 gals; pumping engines, dy cap 1,000,000 gals; 85 hydrants; pipe C iron 8 miles, 4 to 12 in dia; pressure, 60 to 125 pounds; works owned by company; original cost to construct \$80,000; ann expenses \$2,400. Supt, S. A. Stearns.

Hope, Hempstead Co., population 2,500; fire area 4 acres; mercantile buildings, brick, 1 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber inferior 500 ft; total membership 11, volunteers; whistle alarm; total number of fire companies 1. Chief engineer, O. W. Murray; chairman of fire and water com, J. T. Barr.

WATER SUPPLY—Source, artesian wells; system, pumping to tank; tank cap 60,000 gals; pumping engines, dy cap 80,000 gals; 4 hydrants; pipe iron 3 1/2 miles, 1 to 4 in dia; 8 valves; pressure, 45 pounds; waterworks owned by city; original cost to con-

struct \$20,000; expenses of construction to date \$25,000; ann expenses \$1,500. Supt, J. T. Barr.

Hot Springs, Garland Co., population 17,500; fire area 1,500 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 500 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, all kinds, 1 supply wagon; hose, cotton good 4,500 ft, inferior 600 ft, rubber good 250 ft, poor 600 ft; 6 horses, value \$1,500; value of fire department equipment \$25,000; value of buildings occupied \$2,500; total ann expenses of department \$10,000; total membership 50, paid full time 7, paid part time 13, volunteers 30; Gamewell alarm; 12 street boxes; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, A. J. Walsh.

WATER SUPPLY—Source, springs and small streams; system, gravity; cap of reservoir 1,000,000 gals; pumping engines, dy cap 2,500,000 gals; 78 hydrants; pipe 9 miles, 10 to 4 in dia; 80 valves; pressure, domestic about 100, fire about same. Supt, A. N. Sill.*

Huntington, Sebastian Co., population 2,100; fire area 450 acres; mercantile buildings, wood, stone and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—No waterworks.

Little Rock, Pulaski Co., population 35,000; fire area 266 acres; mercantile buildings, brick, 3 and 4 stories; private, wood, outside fire limits; 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—4 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, 1 hose wagon; hose, rubber good 3,700 ft, inferior 1,500 ft, cotton good 750 ft; 15 horses, value \$3,000; value of fire department equipment \$22,000; value of buildings occupied \$4,500; total ann expenses of department \$23,580; total membership 24, paid full time 22, paid part time 2; Gamewell alarm; street boxes 24; total No. of fire companies 5. Chief engineer, R. McKay; fire commissioners, C. I. Kumer, Herman Kuhn, E. C. Ueberfritz.

WATER SUPPLY—Source, Arkansas river; system, pumping to standpipe and reservoir; cap of former 220,000 gals, of latter 18,000,000; compound pumping engines, dy cap 10,000,000 gals; 130 hydrants; 26 miles mains, 4 to 20 in dia; 98 Chapman gates; 81 Crown meters; pressure 70 pounds; cost of works \$400,000; ann expenses \$10,000; works owned by company. Pres, J. A. Purdy.*

Malvern, Hot Spring Co., population 2,500; fire area 50 blocks; mercantile buildings, wood, brick and stone, 1 and 2 stories; private, wood, 1 1/2 and 2 stories; wooden roofs are permitted. Fire department—1 hand engine, 1 hose carriage, 12 buckets; hose, cotton good 800 ft, inferior 200 ft; value of fire department equipment \$600; value of buildings occupied \$300; total membership 15, volunteers; bell alarm; total no. of fire companies 1. Chief engineer, J. D. Browning.*

WATER SUPPLY—Source, wells and railroad tank.

Marianna, Lee Co., population 1,500; fire area 15 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, ladders; hose, cotton good 800 ft, inferior 200 ft; value of fire department equipment \$3,000; total membership 200, volunteers; bell alarm. Chairman of fire and water com, J. A. Plummer.

WATER SUPPLY—Source, well; system, pumping to tank; tank 16 by 14 ft; pumping engines, Jackson; 14 hydrants; pipe c. 1,000 ft, 3 in dia; works owned by city; original cost to construct \$3,000. Chairman of com, J. A. Plummer.

Morrilton, Conway Co. Fire department not reported.

WATER SUPPLY—Source, creek; system, pumping to reservoir; reservoir cap 40,000 gals; pumping engines, dy cap 800,000 gals, Smith & Vail; 12 hydrants, National; pipe 8,500 ft, 3 to 6 in dia. Chattanooga Pipe Works; quality of water good; works owned by E. H. DeLong; original cost to construct \$7,000. Pres and supt, F. H. DeLong.*

Newport, Jackson Co., population 3,000; fire area 18 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, 3 hose wagons; hose, cotton good 1,500 ft, inferior 250 ft; 2 horses, value \$500; value of fire department equipment \$7,000; value of buildings occupied \$6,000; total ann expenses of department \$1,500; total membership 35, paid full time 1, volunteer members 34; telephone and bell electric alarm system to be put in; total no. of fire companies 1, hose companies 1. Chief engineer, Rush H. Davis; chairman of fire and water com., A. A. Bailey.

WATER SUPPLY—Source, White river; system, pumping to tank, cap 60,000 gals; pumping engines, dy cap 2,000,000; 54 hydrants; pipe 4 miles, 8, 6, 4 in dia; 18 valves; pressure, domestic 54, fire 150 pounds; works owned by company; cost to construct \$40,000; ann expenses \$1,800. Supt, W. M. Knoles.*

Pine Bluff, Jefferson Co., population 13,000; fire area 34 miles sq; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, private chemical extinguishers, 1 hook and ladder truck, hose carriage, 1 supply wagon; hose, cotton and rubber 2,000 ft; 3 horses, value \$750; value of fire department equipment \$7,950; value of buildings occupied \$4,000; total ann expenses of department \$6,820; total membership 100, paid full time 7, volunteers 28; telephone alarm. Chief engineer, Chas. Senyard.

WATER SUPPLY—Source, wells and rivers; system, pump to standpipe and direct, cap 100,000 gals; dy cap 3,500,000 gals; 184 hydrants; pipe 14 miles, 4 to 14 in dia; pressure, domestic 40 to 75 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$3,000. Supt, Edw. L. Dillon.*

Prescott, Nevada Co., population 2,000; fire area 6 blocks 700 x 1,200 ft; mercantile buildings, brick, 1 story; private, pine, 1 story; wooden roofs

are permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, artesian wells. (Town council considering waterworks.)

Texarkana, Miller Co., population 3,828; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hook and ladder trucks, 4 hose carriages, all kinds; hose, rubber good 2,500 ft; 6 horses, value \$1,200; value of fire department equipment \$2,000; total membership about 70, paid full time 8, remainder volunteers; Gamewell fire alarm system; 12 street boxes. Chief engineer, J. L. Cella.*

WATER SUPPLY—Source, artesian and open well; system, pumping to reservoir and direct; reservoir cap 5,000,000 gals; pumping engines, dy cap 2,500,000 gals; 60 hydrants; pipe 14 miles, 4 to 10 in dia; galy iron service pipe; pressure, domestic 70, fire, 130 pounds; works owned by company; original cost to construct \$160,000; ann expenses \$7,500. Supt, R. A. Munson.

Van Buren, Crawford Co., population 2,560; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck; value of fire department equipment \$800; value of buildings occupied \$500; total membership 25, volunteers; bell alarm; total no. of fire companies 1. Chief engineer, H. C. Pernot.*

WATER SUPPLY—Source, creek; location Ozark mountains; system, pumping to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 1,000,000; 37 hydrants; pipe 7 miles, 4 to 8 in dia; pressure, 80 to 100 pounds; works owned by Van Buren Water Co. Supt, W. S. Jones. New works being constructed.

Places that have a population of 1,000 or more that have no fire protection: Alma, Crawford Co., population 1,933; Ashley, Pluaski Co., 1,370; Barron, Independence Co., 1,003; Batic, Benton Co., 1,116; Bellefonte, Boone Co., 1,018; Bird, Jackson Co., 2,617; Coal Hill, Johnson Co., 802; Conway, Faulkner Co., 1,207.

CALIFORNIA.

Alameda, Alameda Co., population 15,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical engines on wheels, 6 chemical extinguishers, 2 hook and ladder trucks, 5 two-wheel hose carriages, 1 hose wagon, 4 Johnson hand pumps; hose, cotton good 4,400 ft, rubber good 800 ft; 7 horses, value \$1,400; value of fire department equipment \$12,000; value of buildings occupied \$15,000; total membership 196, paid full time 4, paid part time 4, volunteer members 177; Gamewell alarm; 20 street boxes; 6 fire companies. Chief engineer, Fred K. Krauth, Jr.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir, standpipe and direct; reservoir cap 240,000 gals; Worthington pumping engines, dy cap 1,000,000 gals; 85 hydrants; pipe 40 miles, 12 to 2 in dia; pressure, domestic 40 pounds; works owned by R. R. Thompson; cost to date \$400,968; ann expenses \$29,000. Supt, I. L. Borden.

Alviso, Santa Clara Co., population 200; fire area 60 acres; mercantile buildings, wood, 11-2 and 3 stories, private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—bucket brigade.

WATER SUPPLY—Source, artesian wells.

Amador City, Amador Co., fire department not reported.

WATER SUPPLY—Source, Blue Lake and North Fork Mok river; system, gravity; hydrants 14; pipe 2 1-2 miles, 6 to 2 in dia; 9 valves; taps 50; pressure, 118 pounds; works owned by company. Supt, C. R. Downs.*

Annheim, Orange Co., population 1,600; area 60 acres; mercantile buildings, brick and wood, 1 and 2 stories; dwellings, wood, 1 and 3 stories; fireworks ordinance. Fire department—1 hand engine, 2 hose carts, 1 hook and ladder truck, 700 ft rubber hose, 50 ft poor; value of apparatus, etc., \$3,000; 1 fire company. Chief, N. F. Steadman.

WATER SUPPLY—Wells, pumping to tank; 8 hydrants; pipe 1 1-4 miles.*

Anderson, Shasta Co., population 508; fire area 80 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose carriage, buckets, ladders, axes and hooks; hose, rubber good 200 ft; total membership 30, all volunteers; bell alarm; 1 hose company; value of fire department equipment \$245.85. Chief engineer, D. L. Gover.*

WATER SUPPLY—Source, Cotton Wood creek; system, gravity; reservoir cap 300,000 gals; hydrants 60, Garrett; pipe 1 1-4 miles, 6 in dia; pressure, 50 to 65 pounds; works owned by company; original cost to construct \$8,000; expenses of construction to date \$9,000; ann expenses \$400. Supt, C. M. Palmer.

Antioch, Contra Costa Co., population 1,300; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; membership 49, all volunteers; bell alarm. Chief engineer, Frank M. Wills.

WATER SUPPLY—Source, San Joaquin river; system, pump to reservoir; reservoir cap 80,000 gals; pumping engines, cap 25,000 gals per hour; 10 hydrants; pipe 2 1-2 miles, 6 to 1 1-2 dia; pressure, average 65 pounds; works owned by company; cost to construct \$7,000. Pres. and supt, M. W. Belsbaw.

Arcata, Humboldt Co., population 938; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted outside of business center; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft, rubber good 1,100 ft; value of fire department equipment \$1,600; total ann expenses of department \$400; total membership 50, all volunteers; bell alarm; 1 hook and ladder company. Chief engineer, Geo. W. Harpat.

WATER SUPPLY—Source, springs; system, grav-

ity; cap reservoir 105,000 gals; 16 hydrants; 3-4 mile mains, 3 to 7 in dia; cost of works \$13,000; pressure 50 to 60 pounds. Supt. O. H. Spring.*

Auburn, Placer Co., population 1,595; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, ladders and hooks; hose, cotton good 800 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total membership 50, volunteers; total number of fire companies 2, 2 hose companies. Chairman of fire and water com. T. J. Nichols.*

Water Supply—Source, river; system, gravity; reservoir cap 4,000,000 gals; 33 hydrants; pipe 15 miles, 3 and 2 1/2 in dia; 4 valves; pressure, domestic 175 to 375, fire same pounds. Owner and supt. F. W. Birdsall.*

Azusa, Los Angeles Co., population 1,851; wooden buildings, principally 2 stories; fires extinguished by hand buckets; no regular department.

Water Supply—Source, river; system, gravity; reservoir cap 1,500,000 gals; hydrants 30; pipe 6 miles, 6 to 10 in dia; waterworks owned by company; original cost to construct \$35,000. Supt. R. Hascar.

Bakersfield, Kern Co., population 2,626; fire area 80 acres; mercantile buildings, brick, iron and wood, 2 stories; private, wood, 1 story; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft, rubber good 1,000 ft; value of fire department equipment \$8,000; value of buildings occupied \$1,000; total membership 150, paid part time 1, remainder volunteers; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Frank H. Adams.*

Water Supply—Source, 7 wells; system, pumping to reservoir and direct; reservoir cap 3,300,000 gals; 2 Blake and Worthington pumping engines, dy cap 12,000,000 gals; 12 hydrants; pipe 10 miles, 9 to 1 in dia; pressure, domestic 30 pounds, fire 40 pounds; works owned by company; cost to construct \$15,000; ann expenses \$6,000; cost to date \$38,000. Supt. W. H. Scribner.

Benicia, Solano Co., population 3,000; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; 1,800 ft rubber good. Chief engineer, D. M. Hart.

Water Supply—Source, creek; system, pump to reservoir and gravity; cap 60,000,000 gals; San Francisco Tool Co. pumping engines, dy cap 1,200,000 gals; 25 hydrants; pipe 8 miles, 16 to 2 in dia; average pressure 80 pounds; waterworks owned by company; cost to construct \$175,000. Supt. A. Robinson.

Berkeley, Alameda Co., population 5,101; fire area 640 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 500 ft, rubber good 800 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total membership 60, all volunteers; Klein & Co.'s gong alarm. Chief engineer, Joseph Choppie.*

Water Supply—Source, tunnels, springs, Coast Range Cul; system, gravity; reservoir cap 50,000,000 gals; hydrants 46; pipe iron, 48 miles, 3 to 9 in dia; pressure 60 to 120 pounds; works owned by company. Supt. L. Wellendorf.

Biggs, Butte Co., population 571; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. No fire department.

Water Supply—Source, wells; system, pumping to reservoir; reservoir cap 260,000 gals; pumping engines, cap 500,000 gals; pipe 2 miles, 1 to 4 in dia; pressure, domestic 27, fire 80 pounds; works owned by company; original cost to construct \$7,000; expenses of construction to date \$8,000 ann expenses \$1,000. Porter and Givens (owners).

Callistoga, Napa Co., population 2,000; mercantile buildings, wood and brick; private, wood, 1

and 2 stories; wooden roofs permitted except in fire limit; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, plenty buckets and axes; hose, cotton good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,500; total membership 35, all volunteers; bell and whistle alarm; 1 hose company, 1 hook and ladder company. Foreman, E. A. Gibson.

Water Supply—Source, mountain steam 2 miles west of town; system, gravity; reservoir cap 5,000,000 gals; hydrants 13; pipe 2 miles, 4 to 6 in dia; pressure, domestic 70, fire 70 pounds; works owned by W. F. Fisher; original cost to construct \$35,000; expenses of construction to date \$35,000; ann expenses \$1,000. Supt. W. F. Fisher.

Cambria, San Luis Obispo Co., population 3,288; fire area 1 mile; mercantile buildings, wood, 1 and 2 stories; brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck; value of fire department equipment \$100; total membership 20, volunteers; bell alarm. Chief, S. Guthrie.

Water Supply—Source, wells; system, pumping to tank and reservoir; reservoir cap 15,000, tank 3,000 gals; pumping engines, dy cap 3,000 gals per hour; 6 hydrants; pipe 1 mile, 2 to 3-4 in dia; pressure 45 pounds; waterworks owned private; cost to construct \$2,000.

Chico, Butte Co., population 2,894; fire area 75 acres; mercantile buildings, brick, private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 7 hose carriages, all kinds; 19 ladders; hose, cotton good 3,500 ft, rubber good 500 ft; 2 horses, value \$300; value of fire department equipment \$11,000; value of buildings occupied \$6,000; total ann expenses of department \$2,000; total membership 200, paid full time 1, paid part time 2, remainder volunteers; bell alarm; 2 engine companies, 1 hook and ladder company, 2 hose companies. Chief engineer, J. D. Sproul; chairman of fire and water com, Chas. Craissant.

Water Supply—Source, wells, cisterns; system, pumping to reservoir; reservoir cap 600,000 gals; total cap cisterns 200,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 50; pipe iron 8 1-2 miles, 4 to 8 in dia; 20 valves; pressure, domestic 25, fire 100 pounds; works owned by company; original cost to construct \$60,000; ann expenses \$6,000. Supt. Gilbert H. Taylor.*

Cloverdale, Sonoma Co., population 1,000; fire area 640 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, rubber good 500 ft; value of equipment \$1,000; value of buildings occupied \$500; total ann expenses of department \$50; total membership 25, volunteers; fire bell alarm system. Chief engineer, G. Cameron.

Water Supply—Source, well near Russian river; system, pumping to reservoir; reservoir cap 250,000 gals; pumping engines, dy cap 250,000 gals; 30 hydrants; pipe 4 miles, 6 to 2 in dia; pressure, domestic 65, fire 65 pounds; waterworks owned by company; cost to construct \$11,000; cost to date \$14,000; ann expenses \$1,500. Supt. Geo. W. Kleiser.

Colton, San Bernardino Co., population 2,000; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs used; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$12,000; total ann expenses of department \$300; members 24, paid 1, paid part time 23; bell alarm. Chief engineer, M. A. Bagley.

Water Supply—Source, artesian well; system, gravity; reservoir cap 275,000 gals; hydrants 25; pipe 14 miles, 2 to 20 in dia; pressure 50 to 75 pounds; works owned by company; expenses of construction to date \$65,000; ann expenses \$3,640. Supt. Earl F. Van Luven.

Columbia, Tuolumne Co., population about 400. Fire department—2 hand engines, 2 hose carriages; 300 ft good rubber hose, 600 ft good leather hose, and 250 ft poor; volunteer department 60 men.

WATER SUPPLY—Source, springs and river; gravity; cap of reservoir 90,000 gals; 5 miles of pipes 75 taps; pressure 30 pounds; cost \$24,000. Supt. A. Tarleton.*

Colusa, Colusa Co., population 1,800; fire area 150 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, cotton good 1,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$7,500; total ann expenses of department \$500; volunteer members 52; bell alarm; total no. of fire companies 3, 1 hook and ladder, 2 hose companies. Chief engineer, J. Grover; chairman of fire and water com, Geo. W. Allgaire.

WATER SUPPLY—Source, Sacramento river; system, gravity; pumping to tanks, cap 123,000 gals; pumps, dy cap 500,000 gals in ten hours; 24 hydrants; 5½ miles main, dia 4 to 10 in; cost of works \$40,000; pressure 22 to 40 pounds; operated and owned by J. B. Cooke; cost to construct \$12,000. Supt. W. B. Cooke.

Cucamonga, San Bernardino Co., population 416; buildings, wood, 1 and 1½ stories; wooden roofs permitted; no fireworks ordinance; no organized fire department.

WATER SUPPLY—Source, wells; system, gravity; pump to reservoirs, cap 2,000,000 to 3,000,000 gals each; 41 miles of pipe; cost \$103,000. Supt. T. G. Graham.*

Dixon, Solano Co., population 1,230; fire area 50 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs are permitted, but tin used; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,100 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,000; volunteer members 80; electric alarm; total no. of fire companies 3, no. of engine companies 1, hose companies 2. Chief engineer, Oscar C. Schulz.*

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 100,000 gals; pumping engines, dy cap 100,000 gals; 16 hydrants; pipe 2 miles, 6 to 8 in dia; pressure, 41 pounds; works owned by company; original cost to construct \$10,000; expenses of construction to date \$15,000; ann expenses \$2,500. Supt. F. A. Hutton.

Dutch Flat, Placer Co., population 600; fire area 100 acres; mercantile buildings, stone, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—50 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 300 ft, leather good 200 ft, inferior 100 ft; value of fire department equipment \$800; total ann expenses of department \$50; volunteer members 35; bell alarm. Chief engineer, A. A. Ferguson.

WATER SUPPLY—Source, spring; system, gravity; reservoir cap 190,000 gals; hydrants 15; pipe 1 mile, 3 to 10 in dia; pressure, domestic 25 to 175 pounds; original cost to construct \$5,000. Supt. and prop. I. T. Coffin.

Escondido, San Diego Co., population 541; fire area 600 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$800; value of buildings occupied \$300; total membership 25, volunteers; bell alarm; 1 hook and ladder company. Chief engineer, A. K. Grovath; chairman of fire and water com, S. P. Abell.*

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 9 hydrants; pipe 4 miles, 3-4 to 8 in dia; 32 valves; pressure domestic 60, fire 60 pounds; works owned by company; cost to construct \$32,000; ann expenses \$1,800; cost to date \$33,000. Supt. J. T. Chambers.*

Eureka, Humboldt Co., population 8,000; fire area 75 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 2 hook and ladder trucks, 7 hose carriages, all kinds; hose,

cotton good 5,200 ft, rubber good 800 ft; value of fire department equipment \$16,000; value of buildings occupied \$2,500; total ann expenses of department \$3,000; total membership 140, paid full time 2, paid part time 4, volunteer members 134; Gamewell alarm; 14 street boxes; 5 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Cephus Acheson.

WATER SUPPLY—Source, Elk river; system, pumping to standpipe and direct; standpipe cap 512,000 gals; pumping engines, dy cap 2,000,000 gals, Knowles; hydrants 56; pipe 22 miles, 2 to 13 in dia; pressure, domestic 78, fire 79 pounds; works owned by company; original cost to construct \$195,922; ann expenses \$7,200. Supt. H. L. Ricks.

Felton, Santa Cruz Co., population 259; no organized fire department.*

WATER SUPPLY—Source, Bull creek; system, gravity; pipe 1-4 miles, 5 in dia; pressure 50 pounds; works owned by company; original cost to construct \$3,000; ann expenses \$250; interest on bonds 12 per cent. Supt. W. H. Talbot.*

Ferndale, Humboldt Co., population 763; no organized fire department.*

WATER SUPPLY—Source, spring; system, gravity; reservoir cap 1,755,000 gals; 22 hydrants, Garrett; pipe 10 miles, 1 to 10 in dia; pressure 50 pounds; works owned by Mrs. G. Francis; original cost to construct \$30,000; ann expenses \$500. Supt. D. A. Francis.

Folsom City, Sacramento Co., population 700; fire area 200 acres; mercantile buildings, brick, 1 and 2 stories; private, wood. No fire department.*

WATER SUPPLY—American river, through canal; system, gravity; dy cap 100,000 gals; 7 hydrants; pipe 1 mile, 7 in dia; 50 taps; pressure 30 pounds; cost to construct \$2,000. Supt. C. H. Schussier.*

Fort Bragg, Mendocino Co., population 945; buildings, wood, 1 and 2 stories.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 500,000 gals; 24 hydrants; pipe 3 miles, 2 to 7 in dia; pressure 25 pounds; works owned by company; original cost to construct \$8,000; expenses of construction to date \$9,000. Pres. and Supt. H. F. Milliken.

Fresno, Fresno Co., population 10,818; fire area 2,000 acres; mercantile buildings, brick, 2, 3, and 4 stories; private, wood, 1 and 2 stories; wooden roofs permitted, but tin used mostly; fireworks ordinance. Fire department—3 steam fire engines, 1 chemical engine, 2 chemical extinguishers on hose wagon, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 6,000 ft, inferior 350 ft; 13 horses, value \$2,600; value of fire department equipment \$29,950; value of building occupied \$10,000; total ann expenses of department \$17,500; total membership 115, paid full time 14, remainder volunteers; Gamewell electric fire alarm; 15 boxes. Chief engineer, Truman G. Hart.

WATER SUPPLY—Source, 10 deep wells; system, pumping to standpipe; standpipe cap 250,000 gals; pumping engines, dy cap 6,000,000 gals. Holly and Gaskill; 80 hydrants; pipe 24 miles, 4 to 14 in dia; pressure 35 pounds; works owned by company; original cost to construct \$175,000; cost to date \$285,000; ann expenses \$17,000. Pres. and supt. J. J. Seymour.

Galt, Sacramento Co., population 800; fire area 160 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—75 chemical extinguishers.

Gilroy, Santa Clara Co., population 1,850; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 4 hose carts; hose, rubber good 1,200 ft, cotton good 300 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses of department \$1,000; total membership 100, all volunteers; bell alarm. Chief engineer, Edmond J. Bennett; chairman of fire and water com, Robt. Mayock.

WATER SUPPLY—Source, Avas Creek; system, gravity; cap of reservoir 4,500,000 gals; 29 hydrants; pipe 9 miles, 13 to 10 in dia; 29 valves; pres.

sure 85 pounds; waterworks owned by city; original cost to construct \$48,000; cost to date \$86,000. Supt. J. W. Norris.

Grass Valley, Nevada Co., population about 7,500; area 360 acres, fire limit same; fireworks ordinance and for investigating causes of fire; mercantile buildings, brick, 2 stories; private, wood, 1 story; shingle roofs permitted. Fire department—1 hook and ladder truck, 2 ladders, 4 hose carriages, 1 supply wagon; 1,500 ft good rubber hose, leather good 200 ft; value of apparatus and supplies \$5,000; 8 buildings owned, value \$5,000; membership 75, all volunteers; ann expenses \$950; 3 bell alarms; 8 hose companies. Chief engineer, W. H. Morgan.

WATER SUPPLY—Source, South Yuba Water Co.; system, gravity; reservoir cap 1,200,000 gals; 68 hydrants; pipe 8½ miles, 4 to 24 in dia; 25 valves; service pipe iron ½ to 2 in dia; pressure 175 to 225 pounds; works owned by city; original cost to construct \$15,000; expenses of construction to date \$80,000; ann expenses \$7,000. Supt. James F. Robinson.

Hanford, Tulare Co., population 2,500; fire area 10 acres; mercantile buildings, brick, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 2 hose wagons; hose, cotton good 2,700 ft, rubber good 350 ft; value of fire department equipment \$4,000; value of buildings occupied \$10,000; total ann expenses of department \$3,000; total membership 44, volunteers; Gamewell alarm; 6 street boxes. Chief engineer, Con Russell.

WATER SUPPLY—Source, 2 artesian wells; system, pumping direct to mains, surplus to tanks; cap of tanks 80,000 gals; pumping engines, cap per minute 1,000 gals; 35 double hydrants; pipe 18,000 ft, 8, 6.5 in dia; pressure, domestic 37½, fire 150 pounds; waterworks owned by Robinson & Rawlins; cost to construct \$145,000; expenses \$800 per month. Engineer, Aug. Blix. Beside above a 90,000 gal reservoir built by city.

Haywards, Alameda Co., population 2,040; fire area 1,000 acres; mercantile buildings, wood and brick, 2 stories; private, wood; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft, inferior 200 ft; value of equipment, \$5,000, buildings \$1,500; total ann expenses of department \$425; total membership 50, volunteers 25, paid part time; bell alarm. Chief engineer, Robt. Knudson. Proposed: hook and ladder, 2 chemicals.

WATER SUPPLY—Source, wells, streams; system, pump to reservoir; cap of reservoir 500,000 gals; pumping engine cap per day 400,000; 21 hydrants; 7 miles mains, sizes 3 to 8; cost of works \$45,000; ann expenses \$2,000; works owned privately; pressure 70 to 90 pounds; works operated by Knox Bros. Supt. Wm. Knox.

Healdsburg, Sonoma Co., population 2,000; fire area 110 acres; mercantile buildings, brick and wood, 1 story; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 550 ft, inferior 350 ft, cotton 300 ft; value of fire department equipment \$4,500; value of buildings occupied \$17,500; total ann expenses of department \$727; total membership 100, volunteers 1, paid; bell alarm; total no. of fire companies 5; no. of engine companies 2; hook and ladder companies 1; hose companies 2; have fire police 8 members. Chief engineer, Lew A. Norton.

WATER SUPPLY—Source, springs; system, pumping to reservoir, cap 400,000 gals; hydrants 18; pipe 3 miles; cost to construct \$30,000; ann expenses \$600. Supt. F. Koenig.

Hollister, San Benito Co., population 2,200; fire area 200 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 600 ft, inferior 200 ft, cotton good 1,500 ft, leather good 200 ft; value of fire department equipment not given; value of buildings occupied not given; total ann expenses of department \$300; volunteer

members 25; 1 hook and ladder company, 3 hose companies. Chief engineer, F. J. Bacon.

WATER SUPPLY—Source, wells in town; system, gravity; reservoir cap 250,000 gals; 30 hydrants; pipe 8 miles, 1 to 6 in dia; service pipe, 1 to 3-4 in dia; pressure 45 pounds; waterworks owned by company; original cost to construct \$40,000; expenses of construction to date \$10,000. Supt. T. W. Hawkins.

Independence, Inyo Co., population 300; no fire department.*

WATER SUPPLY—Source, creeks; system, gravity; pipe 1½ miles, 6 to 18 in dia; 42 hydrants; 15 valves; pressure 175 ft; works owned by company; cost of construction \$8,000; ann expenses \$350. Supt. J. C. Irwin.

Irrington, Alameda Co., population 500; buildings, brick and wood, 1 and 2 stories. Fire department—1 hose carriage; 200 ft cotton hose, good; 20 members, volunteers. H. Weston.*

WATER SUPPLY—Source, wells; system, gravity and pump to reservoir; cap of pump 36,000 gals; 3 hydrants; 1-8 mile, 2½ inch mains; cost of works \$12,000; pressure 20 to 30 pounds. H. Crowell, Wm. Mack.*

Jackson, Amador Co., population 1,500; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, 300 ft, good rubber; bell alarm; fire department, citizens. Chief, Ellis Evans.

WATER SUPPLY—Source, Blue Lake Water Co., canal; 270 hydrants, various makers; pipe 5 miles, 11, 7, 3 and 2 in dia; pressure, domestic 200 ft, fire same; ann expenses \$2,100; waterworks owned by B. F. Richtmeyer.

Livermore, Alameda Co., population 1,391; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, all kinds; hose, cotton good 900 ft, inferior 200 ft, linen good 200 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$1,000; total membership 50; town pays \$600 per year for the 50 members; 2 bells. Chief engineer, J. H. Paget.*

WATER SUPPLY—Source, Livermore springs; system, pumping to reservoir; reservoir cap 1,000,000 gals; Aylward Agricultural Works pumping engine, Jy cap 480,000 gals; 20 hydrants; pipe 13 miles, 8 to 4 in dia, Riveted Sheet Iron Co; 20 valves, Garratt; quality of water good; pressure, domestic and fire 25 pounds; waterworks owned by company; cost to construct \$35,000. Supt. John Aylward.

Lodi, San Joaquin Co., population 1,800; fire area 100 acres; mercantile buildings, brick, 2 stories; private, brick, 1 and 2 stories; wooden roofs permitted; Babcock several buckets.

WATER SUPPLY—Source, wells; system, for domestic pump to elevated tank, for fire pump direct, tank cap 120,000 gals; Jy cap 1,000,000 gals; pipe 6 miles, from 8 in dia down; 40 hydrants; 45 valves; pressure, domestic 20, fire 80; waterworks owned by company; cost to construct \$180,000. Supt. Geo. G. Buckland.*

Long Beach, Los Angeles Co., population 564; fire area 150 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted. Fire department—1 hook and ladder truck; value of fire department equipment \$400; value of buildings occupied \$300; total ann expenses of department \$100; total membership 16, all volunteers; 1 hook and ladder company. Chief engineer, N. T. Kinman.

WATER SUPPLY—Source, artesian wells; system, gravity; reservoir cap 90,000 gals; pipe 12 miles, 12 to 2 in dia; 8 valves; quality of water good; pressure 30 pounds; waterworks owned by company. Supt. Thos. B. Hayes.

Los Angeles, Los Angeles Co., population 65,000; fire area 18 acres; mercantile buildings, brick, stone and iron, 3, 4 and 6 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 2 chemical engines on wheels, 10 chemical extinguishers, 1 aerial truck, 7 hose carts, 1 hose wagon; 8 companies, with wagons, extinguishers, ladders etc; hose, rubber good 2,000 ft, cotton good 8,000 ft; 40 horses, value \$8,000; value of fire department

equipment \$100,000; value of buildings occupied \$35,000; total ann expenses of department \$63,774; total membership 79, paid full time 39, paid part time 40; Richmond electric and telephone alarm; 65 street boxes. Chief engineer, D. A. Mordarty.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 15,000,000 gals; pumping engines, dy cap 4,000,000 gals; 341 hydrants; pipe 280 miles, 2 to 42 in dia; 1,700 valves; pressure 50 pounds; waterworks owned by company; cost to construct \$2,500,000. Supt, Wm. Mulholland.

Los Gatos, Santa Clara Co., population 2,500; fire area 200 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft, cotton good 300 ft; value of fire department equipment \$1,200; volunteer members 50; total fire companies 2, hook and ladder companies 1, hose companies 1. Chief engineer, E. N. Davis.*

WATER SUPPLY—Source, springs and wells; system, gravity; reservoir cap 4,000,000 gals; 22 hydrants; pipe 8 miles, 2 to 10 in dia; pressure 100 to 120 pounds; waterworks owned by company; original cost to construct \$63,582. Supt, C. M. Merian.

Madera, Fresno Co., population 1,800; fire area 80 acres; mercantile buildings, wood and brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, linen good 1,000 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; total ann expenses of department \$200; total membership 48, volunteers; telegraph alarm; 9 street boxes; total no. of fire companies 2, no. of engine companies 1, hook and ladder companies 1. Chief engineer, W. L. Becktel.

WATER SUPPLY—Source, 3 wells; system, pumping direct; Worthington pumping engines, dy cap 610 gals per minute; 5 hydrants; pipe 1 mile, 8 and 4 in dia; 4 valves; pressure, domestic 20, fire 90 pounds; cost to construct \$3,000. Pres and supt, R. Roberts.

Martinez, Contra Costa Co., population 1,600; fire area 400 acres; buildings, wood, 2 stories. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; 500 ft good cotton hose. Chief engineer, E. H. Ludden. (Will purchase a new chemical engine.)

WATER SUPPLY—Source, artesian wells; system, pumping to tank; tank cap 50,000 gals; 20 hydrants; pipe 10 miles, size 2, 3 and 4 in; pressure, domestic 40, fire 100 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$3,000. Pres, G. W. McNear. Expect new supply shortly.

Marysville, Yuba Co., population 4,000; fire area 640 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, rubber good 1,900 ft, inferior 250 ft, cotton good 500 ft; 3 hoses, value \$500; value of fire department equipment \$13,000; value of buildings occupied \$15,000; total ann expenses of department \$8,755; total membership 15, paid full time 4, paid part time 11; bell alarm. Chief engineer, Geo. B. Baldwin.*

WATER SUPPLY—Source, wells in center of city; system, pumping to reservoir; reservoir cap 250,000 gals; pumping engines, dy cap 70,000 gals per hour; 16 hydrants; pipe, 12 to 2 in; service pipe cast iron and gas pipe; pressure 22 pounds; works owned by company. Supt, L. C. Williams.

Mendocino, Mendocino Co., population 806; fire area 1 sq mile; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; 800 ft good rubber hose; value of fire department equipment \$1,400; membership 60, all volunteers; bell alarm; 1 fire company. Chief engineer, H. McKenzie.

WATER SUPPLY—Source, tanks and cisterns; system, pumping to reservoirs; cap from 3,000 to 35,000 gals; quality of water good; cost to construct \$100 for cistern. Supt, J. C. Ford.*

Menlo Park, San Mateo Co., population 300; buildings, wood, 1 and 2 stories; no organized fire department.*

WATER SUPPLY—Source, surface water; system, gravity; cap of reservoir 125,000,000 gals; pipe 11 miles; 48 meters; pressure, domestic 40, fire 60 pounds; cost to construct \$250,000. Supt, D. J. Willis.*

Merced, Merced Co., population 2,000; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton 500 ft, rubber good 500 ft; value of fire department equipment \$10,000; value of buildings occupied \$1,500; total ann expenses of department \$300; total membership 30, volunteers; bell alarm. Chief engineer, Geo. Conway.*

WATER SUPPLY—Source, Merced river; system, gravity; 45 hydrants, Ludlow; pipe 6 miles, 6 to 16 in dia; pressure 36 pounds; works owned by company; original cost to construct \$300,000. Supt, Chas. D. Martin.

Mission San Jose, Alameda Co., population 500; fire area 10 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 100 ft, cotton good 300 ft; value of fire department equipment \$500; value of buildings occupied \$100; total ann expenses of department \$75; total membership 20, all volunteers; bell alarm; 1 hook and ladder company. Foreman, James Stanley.

WATER SUPPLY—Source, mountain springs; reservoir cap 100,000 gals; one-half mile, 3½ in street mains; 12 hydrants; cost about \$4,000. Supt, J. Galleges.*

Modesto, Stanislaus Co., population 3,240; fire area 5 blocks; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 250 ft, inferior 250 ft, cotton good 1,500; 1 electric fire alarm box. Foreman, Geo. F. Young.

WATER SUPPLY—Source, 3 wells, 198 ft deep; system, pumping into mains surplus to 4 tanks; cap 40,000 gals each; cap of 2 pumps 1,008,000 each per 24 hours; hydrants 30; pipe 8 miles, 12 to 2 in dia; 8 gates; 198 taps; works owned by city; cost to construct \$60,000. Water commissioner, F. H. Zander.

Monrovia, Los Angeles Co., population 1,500; fire area 6 blocks; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose cart; 500 ft cotton hose. Chief engineer, C. E. Slosson.

WATER SUPPLY—Source, Sierra Nevada mountains; system, gravity; reservoir cap 4,000,000 gals; 200 hydrants; pipe iron and cement, dia 20 to 24 in cement, 1 to 6 in iron; pressure, domestic 50, fire 150 pounds; works owned by city; expenses of construction to date \$30,000. Supt, Joe Combs.*

Monterey, Monterey Co., population 2,000; fire area 500 acres; mercantile buildings, wood, brick and stone, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,100 ft; value of fire department equipment \$2,700; total no. of fire companies 2, 1 hook and ladder, 1 hose; 40 volunteers. Chief engineer, W. E. Parker.

WATER SUPPLY—Source, Carmel river; 2 reservoirs, total cap 150,000,000 gals; 30 hydrants; pipe 30 miles, 3 to 18 in dia; pressure, domestic 90, fire 120 pounds; waterworks owned by Pacific Improvement Co; cost to construct \$2,000,000. Supt, I. A. Skinner.

Mott, Siskiyou Co., population 600; mercantile buildings, wood and brick, 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—2 chemical extinguishers; hose, rubber good 500 ft; value of fire department equipment \$400; value of buildings occupied \$500; bell alarm. Chairman of fire com, I. O. Welsh.*

WATER SUPPLY—Source, creek conveyed to reservoir in a ditch; reservoir cap 2,000,000 gals; 25 hydrants, Gregory; pipe 3 miles, 8 to 16 in dia; 25 valves; pressure 30 pounds; waterworks owned

by company; original cost to construct \$16,000. Supt. J. O. Welsh.*

Napa City, Napa Co., population 4,500; fire area 1,500 acres; mercantile buildings, brick, 2 stories; private, wood, outside of fire limits, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 2,000 ft., inferior 3,000 ft., rubber inferior 500 ft.; value of fire department equipment \$4,000; value of buildings occupied \$6,000; total ann expenses of department \$1,800; total membership 132, all volunteers; electric fire alarm; 38 street boxes; 1 engine company, 1 hook and ladder company, 4 hose companies, Chief engineer, S. M. Chapman; chairman of fire and water com. C. Derby.

WATER SUPPLY—Source, in dry season, river; in wet season supply is pumped from well; system, pumping to reservoir; reservoir cap 1,500,000 gals; pumping engines, dry cap 300,000 gals; 53 hydrants; pipe 6 miles, 4 to 12 in dia; pressure, domestic about 40 pounds, fire same; cost to construct about \$163,000. Supt. T. R. Parker.

National City, San Diego Co., population 1,000; fire area 2 miles; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton rubber lined good 2,000 ft.; value of fire department equipment \$5,000; value of buildings occupied \$1,000; total membership 80, all volunteers; bell alarm; 2 hose companies, 1 H. and L. company, Chief engineer, Otto R. Freitag.

WATER SUPPLY—Source, Sweetwater storage reservoir; system, gravity; reservoir cap 6,000,000 gals; 38 hydrants; pipe 70 miles, 38 to 3 in dia; pressure, domestic 60, fire same; waterworks owned by company; cost to construct \$1,000,000. Supt. H. N. Savage.

Nevada City, Nevada Co., population 3,500; fire area 640 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers, 7 hose carriages; hose, rubber good 1,000 ft., inferior 400 ft., cotton good 1,000 ft.; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$1,200; total membership 70, volunteers; bell alarm; total no of fire companies 2, no of engine companies 1, hose companies 1. Chief engineer, J. F. Hook.*

WATER SUPPLY—Source, river; system, gravity; 3 reservoirs, cap 1,000,000 gals; 41 hydrants; pipe 4½ miles, 4 to 10 in dia. Supt. J. E. Brown.*

Nipomo, San Luis Obispo Co., population 215; buildings, wood, 1 and 2 stories. Fire department—bucket and hose; bell alarm. Chief engineer, H. E. Ketchum.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 232,500 gals; 135 hydrants; pipe 7 miles, 6 in dia; pressure 100, fire 195 pounds; works owned by company; original cost to construct \$19,000; ann expenses \$200. Supt. Geo. R. Stone.

North San Juan, Nevada Co., population 303; mercantile buildings, wood and brick, 1 and 2 stories. Fire department—2 hose carriages; hose, cotton good 1,200 ft.; total membership 42, all volunteers. Chief, A. N. Crane.

WATER SUPPLY—Source, mining ditch and reservoir; system, gravity; pump to mains, reservoir cap unlimited; 10 hydrants; pipe 2,000 ft., size 9 in dia; quality of water good; pressure for fire purposes 180 ft. Supt. S. N. Crane.

Oakdale, Stanislaus Co., population 1,012; fire area 125 acres; mercantile buildings, brick principally, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted, but tin used; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; rubber buckets, Hays hose clamp, etc; hose, cotton good 250 ft., rubber good 400 ft.; value of fire department equipment \$1,700; value of buildings occupied \$500; total ann expenses of department \$175; total membership 18, all volunteers; bell alarm, with watchman in attendance. Chief engineer, M. A. Lewis.

WATER SUPPLY—Source, artesian well, direct into mains; cap of tank 80,000; cap per day 15,000

gals; 40 hydrants; pipe 6 to 3 in dia, 2½ miles; pressure for domestic purposes 20 to 80, for fire 80 pounds; cost to construct \$20,000. Supt. A. Rand.*

Oakland, Alameda Co., population 48,982; fire area 120 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—4 steam fire engines, 3 chemical engines, 12 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 7 hose carts; hose, cotton good 8,300 ft.; 24 horses, value \$4,800; value of fire department equipment \$46,000; value of buildings occupied \$44,000; total ann expenses of department \$71,983.83; total membership 74, paid full time 29, paid part time 45; Gamewell alarm; street boxes 62. Chief engineer, Jas. F. Kennedy.*

WATER SUPPLY—Source, Lake Chabob; system, gravity & pumping to reservoir; 2 reservoirs cap 10,000,000 gals; pumping engines, dry cap 3,000,000 gals; 300 hydrants; pipe 25 miles, 15 to 4 in dia; pressure 60, fire 90 pounds; waterworks owned by company; cost to construct \$6,000,000. Supt. Fred Prindle.

Oceanside, San Diego Co., population 625; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 300 ft., linen good 300 ft.; value of fire department equipment \$450; value of buildings occupied \$100; total membership 16, volunteers; bell alarm; total no of fire companies 1. Chief engineer, W. H. Fultz.

WATER SUPPLY—Source, river; system, pumping to reservoir and direct; 2 reservoirs, total cap 275,000 gals; pumping engines, dry cap 100,000 gals; 9 hydrants; pipe 8 miles, 2 to 6 in dia; pressure, domestic 42, fire 42 pounds; waterworks owned by city; cost to construct \$12,500; ann expenses \$3,200. Supt. J. L. Clewett.

Ontario, San Bernardino Co., population 1,000; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—one combination hook, ladder and hose truck; value equipment \$850, buildings \$75; 23 volunteers; bell alarm. Foreman, W. A. Young.

WATER SUPPLY—Source, San Antonio Canon; system, gravity; 6 hydrants; pipe 100 miles, 2 to 30 in dia; pressure 85 pounds; original cost to construct \$350,000; ann expenses \$8,000. Supt. F. E. Trask.

Oroville, Butte Co., population 1,787; fire area 500 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories. Fire department—8 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft., inferior 500 ft.; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total membership 70, all volunteers; bell alarm; 2 hook and ladder companies, 2 hose companies. Chief engineer, E. W. Fogg.*

WATER SUPPLY—Source, west branch of Feather river; system, gravity; reservoir cap 2,000,000 gals; 42 hydrants; pipe 9 miles, 15 to 4 in dia; 40 valves; pressure, domestic 70, fire 70 pounds; waterworks owned by company; cost to construct \$5,000; ann expenses \$3,000. Supt. D. N. Friesleben.*

Pacific Grove, Monterey Co., population 1,500; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 250 ft., inferior 300 ft., cotton good 650 ft.; value of fire department equipment \$1,500; value of buildings occupied \$300; total membership 20, volunteer. Foreman, C. Johnson.*

WATER SUPPLY—Furnished by Pacific Improvement Co. See Monterey. City clerk, B. A. Eardley.*

Pasadena, Los Angeles Co., population 10,500; fire area 600 acres; mercantile buildings, brick and wood, 1 to 5 stories; private, wood, 1 to 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft., rubber good 600 ft.; 6 horses, value \$1,500; value of fire department equipment \$3,500; value of buildings occupied

\$9,000; total ann expenses of department \$5,000; total membership 18, paid full time 4, paid part time 13; Gamewell alarm; no of street boxes 19. Chief engineer, A. S. Turbett.

WATER SUPPLY—Source, springs; system, gravity and pumping to reservoirs; reservoirs cap 5,500,000 gals; Worthington pumping engines, dy cap 2,250,000 gals; 20 hydrants; pipe 10 miles, 13 to 4 in dia; pressure 10 to 75 pounds; works owned by company; cost to construct to date \$150,000; ann expenses \$10,000. City engineer, S. W. Sedwick. Pasadena Land and Water Co. supplies one-third of city and nearly all of South Pasadena; the Pasadena (lake Vineyard) Land and water Co. supplies about two-thirds of the city, and the North Pasadena Land and Water Co. supplies a tract north of the city and a small part of the city proper.

Paso Robles, San Luis Obispo Co., population 2,000; fire area 12 sq blocks; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$300; total membership 22, volunteers; bell alarm. Chief engineer, R. W. Gano.

WATER SUPPLY—Source, river and springs; system, pumping to reservoir; cap 150,000 gals, dy cap 600,000 gals; Dow pumping engines; pipe 6½ miles, 2 to 8 in dia; hydrants 11; meters 18; pressure, domestic 100, fire 128 pounds; cost to construct \$20,000; works owned by company; cost to date \$30,000; ann expenses \$1,500. Supt, J. W. Garren.*

Petaluma, Sonoma Co., population 4,200; fire area 12 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, cotton good 2,500 ft, rubber inferior 400 ft; value of fire department equipment \$7,000; value of buildings occupied \$5,000; total ann expenses of department \$600; fire bell alarm. Chief engineer, Wm. F. Farrell.

WATER SUPPLY—Source, mountain streams; system, gravity; reservoir cap 2,500,000 gals; storage reservoir cap 40,000,000 gals; 42 hydrants, Savage & Sons; pipe 17 miles, 4 to 8 in dia; 30 valves, Chapman and Eddy; 4 meters, Worthington and Crown; quality of water good; pressure 80 to 65 pounds; waterworks owned by company; cost to construct to date \$160,000; ann expenses \$5,000. Supt, Chas. H. Egan.

Placerville, Eldorado Co., population 1,690; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories. Fire department—2 hand engines, 2 chemical extinguishers, 2 hose carriages; hose, cotton good 500 ft, 700 ft poor; value of fire department equipment \$5,000; value of buildings occupied \$3,500; total membership 80, all volunteers; bell alarm. Chief engineer, J. J. Wonderly.*

WATER SUPPLY—Source, springs and cisterns; system, gravity; 2 reservoirs, cap 500,000 gals; 18 hydrants; (number to be increased during summer) pipe 3½ miles, 7 in dia; pressure 47 to 150 pounds. G. W. Barlow.*

Pleasanton, Alameda Co., population 1,000; fire area 180 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1½ stories; shingle roofs used; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck; value of fire department equipment \$250; value of buildings occupied \$300; total membership 20, volunteers; bell alarm; 1 fire company. Chief, W. H. Martin.

WATER SUPPLY—Source, wells and cisterns.*

Pomona, Los Angeles Co., population about 5,000; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 1½ stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft; 2 horses, value \$400; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total membership 75, all volunteers; gen. alarm bell; 1 hook and ladder company, 2 hose companies. Chief engineer, E. M. Keller.

WATER SUPPLY—Source, artesian wells; system, gravity; 39 hydrants; pipe 33 miles, 8½ in dia and

under; pressure, domestic 50, fire same pounds; waterworks owned by company. Supt, H. J. Nichols.

Porterville, Tulare Co., population 1,200; fire area 640 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 hose carriages, 3 ladders, 1 extension on wheels; hose, rubber good 200 ft, cotton good 900 ft, inferior 150 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total ann expenses of department \$1,000; total membership 36, volunteers; electric bell alarm; total no of fire companies 3, no of engine companies 1, 1 patrol company, 1 hose company. Chief engineer, F. N. Jersey.

WATER SUPPLY—Source, Tule river; system, pumping direct; reservoir cap 60,000 gals; J. B. Jardin pumping engines, dy cap 500,000 gals; hydrants 7; pipe 2½-4 miles, 6 in dia; pressure, domestic 40, fire 70 pounds; works owned by company; cost to construct \$11,500; cost to date \$18,800; ann expenses \$950. Supt, E. Newman.

Red Bluff, Tehama Co., population 3,000; fire area 150 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 450 ft, inferior 250 ft, cotton good 1,100 ft, inferior 350 ft; 2 horses, value \$400; value of fire department equipment \$9,400; value of buildings occupied \$18,000; total ann expenses of department \$1,600; total membership 84, paid full time 2, paid part time 1; volunteer members 81; electric alarm; 4 boxes; total no of fire companies 3, 1 hook and ladder company, 2 hose companies. Chief engineer, Paul Stoll; chairman of fire and water com, Rolla Fuller.

WATER SUPPLY—Source, Antelope creek 8 miles east of city; system, gravity and pumping to tanks; tanks cap 140,000 gals; cap of pumps 12 hrs 250,000 gals; hydrants 50; pipe 17 miles; pressure, fire and domestic 60 pounds; works owned by company; cost to construct \$150,000; ann expenses \$4,000. Supt, Chas. Cadwalader.

Redding, Shasta Co., population 1,821; fire area 28 acres; mercantile buildings, brick, 1 and 2 stories; private, wood; wooden roofs are not permitted in fire limits. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, 1,000 ft cotton good, 200 ft poor; value of fire department equipment \$2,000; value of buildings occupied \$250; total expenses of department \$1,000; total membership 60, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, A. S. Castle.*

WATER SUPPLY—Source, Sacramento river, located in city; system, pumping direct; reservoir cap 350,000 gals; pumping engines, dy cap 1,600,000 gals; hydrants 22, Garratt; pipe 8½ miles, 12 to 2 in dia; pressure, domestic 40, fire 40 pounds; waterworks owned by company; cost to date \$32,000; ann expenses \$4,500. Supt, S. P. Fillman.

Redlands, San Bernardino Co., population 2,000; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; 900 ft good cotton hose; value of equipment \$2,420; ann expenses \$114; membership 30, volunteers; alarm 3 pistolshots. Chief, Jack Levy.

WATER SUPPLY—Source, Bear valley reservoir, Santa Anna river and mill creek; system, gravity; reservoir cap 8,000,000 gals; hydrants 12; pipe 39 miles, 13 to 2 in dia; 75 valves; pressure, domestic 55, fire 85 pounds; waterworks owned by company; original cost to construct \$200,000; ann expenses \$8,000. Supt, H. W. Allen.

Redondo Beach, Los Angeles Co., population about 600; fire area 3 blocks; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—hose, cotton good 400 ft. City marshal, Geo. Fayer; \$5,000 bonds voted for, apparatus, chemical engine proposed.

WATER SUPPLY—Source, 40 driven wells; system, pumping to reservoir; cap 3,000,000 gals; dy cap 1,500,000 gals; pumping engines; pipe 12 miles, 8

to 2 in dia; 123 valves; cost to construct \$55,000. Supt, H.H.Venable.*

Redwood City, San Mateo Co., population 2,000; fire area 600 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,400 ft, inferior 300 ft; value of fire department equipment \$4,000; value of buildings occupied \$7,500; total ann expenses of department \$500; total membership 95, volunteers; bell alarm; total no of fire companies 4, 1 hook and ladder, 3 hose companies. Chief engineer, John W. Glennan.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir, cap 5,000,000 gals; pumping engines, daily dy cap 150,000 gals; 60 hydrants; 8 miles of pipe, 8 to 4 in dia; pressure, fire purposes 50 pounds; waterworks owned by city; cost to construct \$25,000; ann expenses \$2,500. Supt, J. Stalter.

Riverside, Riverside Co., population 6,000; fire area 1 sq mile; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 2,000 ft; value of fire department equipment \$5,000; total ann expenses of department \$900; total membership 25, paid part time 25; Gamewell electric alarm; street boxes 3; total no of fire companies 2, 1 hook and ladder company, 1 hose company. Chief engineer, Geo. T. Ward.

WATER SUPPLY—Source, artesian wells, 8 miles N. E. of city; system, gravity; reservoir 30 ft dia; 45 hydrants; pipe 22 1-2 miles, 4 to 17 in dia; service pipe iron 1 and 3-4 in; pressure, domestic 70, fire 70 pounds; waterworks owned by Riverside Water Co.; original cost to construct \$142,266; expenses of construction to date \$11,448; ann expenses \$4,116. Supt, Francis Cuttle.

Sacramento, Sacramento Co., population 30,000; fire area 640 acres; mercantile buildings, brick, stone and wood, 1 to 4 stories; private, brick and wood, 1 to 4 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines and 1 reserve, 7 chemical extinguishers, 1 hook and ladder truck and 1 in reserve, 1 aerial truck, 3 hose carts in service and 3 in reserve; hose, cotton good 5,000 ft, rubber inferior 1,400; 12 horses, value \$1,500; value of fire department equipment \$30,000; value of buildings occupied \$28,000; total ann expenses of department \$32,500; total membership 48, paid full time 14, paid part time 34; electric alarm; street boxes 31. Chief engineer, H. A. Guthrie.

WATER SUPPLY—Source, Sacramento river; system, pumping to tank and direct; reservoir cap 3,000,000 gals; pumping engines, dy cap 7,000,000 gals; 385 hydrants, various; pipe 40 miles, 4 to 20 in dia, various; quality of water good; pressure, domestic 40, fire 80 pounds; works owned by city; cost to construct \$350,000; ann expenses \$40,000. Supt, Alonzo Conklin.*

Saint Helena, Napa Co., population 1,705; fire area 12 acres; mercantile buildings, wood, stone and brick, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, 2 chemical extinguishers; hose, cotton good 1,000 ft, rubber good 700 ft; value of fire department equipment \$1,500; value of buildings occupied \$2,300; expenses \$400; total membership 60, all volunteers; bell alarm. Chief engineer, H. B. Bell.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 35,000,000 gals; 26 hydrants; pipe 5 miles, 12 to 2 in dia; pressure 65 pounds; waterworks owned by company; cost to construct \$50,000; ann expenses \$1,500. Pres and supt, Seneca Ewer.

Salinas, Monterey Co., population about 2,700; fire area 2,500 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, leather, inferior 500 ft; cotton good 1,000 ft, poor 200 ft; value of fire department equipment \$3,000; value of buildings occupied

\$2,000; total membership 95, all volunteers; 1 hook and ladder company and 2 hose companies; bell alarm. Chief engineer, W. T. Duncan.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 150,000 gals; dy cap 360,000 gals; pumping engines; 26 hydrants; pipe iron 7 1-2 miles, 3 to 6 in dia; pressure, domestic 24, fire 36 pounds; waterworks owned by company. Supt, Frank B. Day.*

San Andreas, Calaveras Co., population 500; fire area 20 acres; mercantile buildings, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose cart, 10 chemical extinguishers; hose, cotton good 500 ft, leather good 300 ft, poor 200 ft; 2 wheel trucks, 3 ladders, 2 fire axes and buckets; value of equipment \$3,000; value of buildings occupied \$500; total ann expenses of department \$150; total membership 45, all volunteers; bell alarm. Chief engineer, A. L. Wyllie.

WATER SUPPLY—Water pumped to tanks by driven windmill; 3 cement cisterns of 12,000 gals; cap; each situated in different parts of town. Town clerk, A. L. Wyllie.

San Bernardino, San Bernardino Co., population about 7,000; fire area 50 acres; mercantile buildings, brick, 1 to 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber inferior 500 ft, cotton good 2,500 ft; 3 horses, value \$750; value of fire department equipment \$8,000; value of buildings occupied \$1,500; total ann expenses of department, \$3000; total membership 34, paid full time 1, paid part 33; bell alarm; street boxes 11; total no of fire companies 4; hook and ladder company, 2 hose companies. Chief engineer, D. H. Wixom.

WATER SUPPLY—Source, 11 artesian wells, 4 miles N. W. of city; gravity; reservoir cap 1,125,000 gals; 76 hydrants; pipe 24 miles, 12 to 4 in dia; 82 valves; pressure 60 to 90 pounds; waterworks owned by city; cost to construct 13,000. Supt, C. G. Patton.

San Buena Ventura, Ventura Co., population 2,700; fire area 4 blocks; mercantile buildings, mostly brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,300 ft, inferior 400 ft; value of fire department equipment \$3,000; value of buildings occupied \$500; total ann expenses of department \$650; total membership 18, all volunteers; bell alarm; 3 hose companies. Chief engineer, Ed. M. Herschfelder.

WATER SUPPLY—Source, Ventura river; system, gravity and pumping to reservoir; Worthington duplex pumping engines; cap of reservoirs 4 of 1,000,000 gals each, dy cap 360,000 gals; 19 hydrants; pipe 15 miles, 2 to 25 in dia; 26 valves; pressure, domestic 90 pounds, fire same; waterworks owned by company; cost to construct \$163,504; ann expenses \$12,291. Supt, E. P. Foster.

San Diego, San Diego Co., population 16,500; fire area 1,920 acres; mercantile buildings, brick and wood, 1 to 5 stories; private, wood, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 6 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, 1 supply wagon; hose, cotton good 4,000 ft, inferior 500 ft, rubber good 300 ft; 11 horses, value \$2,200; value of fire department equipment \$25,000; value of buildings occupied \$2,500; total ann expenses of department \$15,520; total membership 41, paid full time 9, paid part time 32; Gamewell alarm; 24 street boxes; 2 engine companies, 3 hose companies, 2 hook and ladder companies. Chief engineer, A. B. Cairnes.

WATER SUPPLY—Source, wells 50 miles N E of city; system, gravity, pumping direct or to stand-pipe; reservoir cap 4,800,000 gals; standpipe cap 30 in dia, 130 ft high; pumping engines, dy cap 6,350,000 gals; 189 hydrants; pipe 75 miles, 1 to 20 in dia, cast riveted and kalamain; 375 valves; pressure, domestic 60 to 80, fire 100 to 150 pounds; waterworks owned by company, but leased to city; expenses of construction to date \$2,000,000; int cn bonds \$50,000. Supt, E. W. Elliot.*

San Francisco, San Francisco Co., population 298,997; fire area 25,000 acres; mercantile

buildings, stone, 2 to 9 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—25 steam fire engines, 7 chemical engines on wheels, 23 chemical extinguishers, 5 hook and ladder trucks, all aerial, 22 hose carriages, 7 hose wagons, 1 Hale water tower, siamese coupling; hose, cotton good 20,000 ft, rubber good 27,000 ft; 140 horses; value of fire department equipment \$150,000; value of buildings occupied \$350,000; total ann expenses of department \$418,000; total membership 465, paid full time 131, paid part time 344; Gamewell alarm; no of street boxes 188; fire patrol supported by insurance companies. Chief engineer, Dennis T. Sullivan.

WATER SUPPLY—Source, mountain streams and lake; system, gravity and pumping to reservoir; cap 29,000,000,000 gals; pumping engines, dy cap 20,000,000 gals; hydrants 2,200; pipe 284 miles, 3 to 44 in dia; pressure, domestic 40 to 200, fire 40 to 100 pounds; waterworks owned by company; ann expenses \$391,800. Supt, H. Schussler; are putting in additional reservoir; total cap, of reservoirs will be 72,000,000,000 when completed.

San Gabriel, Los Angeles Co., population 737; mercantile buildings, wood, 1 and 2 stories; wooden roofs permitted; no organized fire department.

WATER SUPPLY—Source, wells; system, gravity to and from reservoir; cap of reservoir 1,000,000 gals; hydrants 50; pipe 6 miles; average pressure 150 pounds; cost to construct \$20,000; works owned by company. Owner, E. K. Alexander.

San Jacinto, San Diego Co., population 1,200; fire area 6 blocks; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, good rubber 300 ft; value of fire department equipment \$300; total membership 25, volunteers; bell alarm. Chief, E. B. Knapp.

WATER SUPPLY—Source, artesian wells; system, pumping to tank; tank cap 10,000 gals; pumping engines, dy cap 10,000 gals, per hr, Daniel best gasoline engine; hydrants 50; pipe iron 1 mile, 3-4 to 7 in dia; pressure, domestic 35, fire 35 pounds; waterworks owned by company; original cost to construct \$7,000; annual expenses \$350. Supt, J. G. Heinhart.

San Jose, Santa Clara Co., population 18,060; fire area 3,520 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, wood; wooden roofs permitted; fireworks ordinance. Fire department—4 steam fire engines, 8 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages, 1 hose wagon; hose, cotton good 3,200 ft, inferior 1,000 ft, rubber good 750 ft, inferior 1,700 ft; 16 horses; value of fire department equipment \$4,100; value of buildings occupied \$27,000; total ann expenses of department \$39,653; total membership 53, paid full time 17, paid part time 36; Gamewell electric fire alarm system; street boxes 50. Chief engineer, J. F. Dwyer.

WATER SUPPLY—Source, springs; system, gravity and 6 reservoirs; reservoir cap 4,000,000 gals; pipe 65 miles, 18 to 4 in dia. Supt, W. J. Wilcox.*

San Luis Obispo, San Luis Obispo Co., population 2,995; fire area 100 acres; mercantile buildings, brick and wood, 1 to 3 stories; wooden buildings prohibited in business portion; private, wood, 1 to 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft, rubber inferior 600 ft, 2 horses, value \$300; value of fire department equipment \$8,000; value of buildings occupied \$3,000; total ann expenses of department \$1,080; total membership 57, paid part time 3, remainder volunteers; bell alarm; 3 fire companies. Chief engineer, A. Hanson.

WATER SUPPLY—Source, San Luis Obispo creek and Andrews canyon; system, gravity to reservoirs; large reservoir 5,000,000 gals, small cap 600,000 gals; hydrants 24; pipe 11 miles, 8 to 2 in dia; pressure 60 to 80 pounds; works owned by company; cost to construct to date \$105,000; ann expenses \$2,500. Supt, John A. Nook.

San Mateo, San Mateo Co., population 2,500; area 2 square miles; buildings, brick and wood, 1 story; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 600 ft, 600 ft good cotton hose;

value of fire department equipment \$4,000; total membership 68, all volunteers; bell alarm; 1 hook and ladder company and 2 hose companies. Chief, W. F. Herbst.

WATER SUPPLY—Source, not stated; system, gravity; 28 hydrants. A. Hayward, G. A. Bartlett.*

San Pedro, Los Angeles Co., population 1,240; area of town 100 acres; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,600; total membership 50, all volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, D. R. Clay.

WATER SUPPLY—Source, spring and wells; system, pumping to reservoir, cap 214,000 gals; pumping engines, dy cap 120,000 gals; hydrants 3, Crain Co.; pipe 6 miles, 1-2 to 4 in dia; valves 75, Craine; 75 meters; pressure 40 pounds; works owned privately; cost to construct \$25,000; ann expenses \$450. Proprietor, R. D. Sepulveda.*

San Rafael, Maria Co., population 3,000; fire area 920 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hook and ladder trucks, 4 hose carriages, all kinds; hose, cotton good 2,800 ft; 1 horse, value \$150; value of fire department equipment \$6,000; value of buildings occupied \$2,000, total ann expenses of department \$1,100; total membership 53, volunteer; whistle alarm. Chief engineer, T. B. Almy; chairman of fire and water com, S. P. Moorhead.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoir 140,000,000; 53 hydrants, Vulcan Iron Works; pipe 40 miles, 2 to 12 in dia; pressure, domestic 80, fire 120 pounds; works owned by company; cost to construct \$450,000; ann expenses about \$20,000. Supt, Robert Walker.

Santa Anita, Los Angeles Co., population not stated; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, artesian wells; system, gravity; reservoir cap 50,000,000 gals; pipe 75 miles, 2 to 24 in dia; quality of water soft; pressure 100 pounds; works owned by E. J. Baldwin; cost to construct \$75,000. (10 additional reservoirs of 4,000,000 gals will be built.)*

Santa Anna, Orange Co., population 3,628; fire limit 20 acres; mercantile buildings, stone, brick, iron and wood, 1 to 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 chemical hand engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carts; hose, cotton good 1,000 ft, rubber good 100 ft (600 ft more will be purchased); value of fire department equipment \$5,000; value of buildings occupied \$4,000; total ann expenses of department \$800; total membership 46; bell alarm; 4 fire companies, 1 chemical engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, James F. Brown.

WATER SUPPLY—Source, artesian wells; system, pumping direct; reservoir cap 350,000 gals; 2 pumping engines, dy cap 2,250,000 gals each; hydrants 65; pipe 11 miles, 3 to 12 in dia; 30 valves; pressure, domestic 50, fire 100 to 120 pounds; works owned by city; cost to construct \$58,000; ann expenses \$3,500. Pres, C. C. Edinger; supt, S. H. Finley.

Santa Barbara, Santa Barbara Co., population 5,864; fire area 30 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 Babcock extinguishers, 1 hook and ladder truck, 180-foot extension ladder; 1 horse hose wagon & swinging harness, 3 hose carriages, 3 pomper outfits, siamese couplings, 1 jumping net; hose, cotton good 2,000 ft, inferior 800 ft; value of fire department equipment \$8,500; total ann expenses of department \$3,000; telephone, fire alarm system connected with engine house, alarm gongs; total membership 60, all volunteers; bell alarm. Chief engineer, A. Ott.

WATER SUPPLY—Source mountain streams and

wells; system, gravity and pumping direct; reservoir cap 758,000 gals; pumping engine, dy cap 1,000,000 gals; hydrants 53; pipe iron 15 miles, 2 to 12 in dia; pressure, domestic 60 to 90, fire 100 to 150 pounds; waterworks owned by company. Supt, H. C. Thompson.*

Santa Cruz, Santa Cruz Co., population 6,401; fire area 1,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hook and ladder truck, 5 hose carriages; hose, cotton good 2,000 ft, rubber good 4,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$10,000; total ann expenses of department \$1,670; total membership 230, volunteers; electric alarm; number of street boxes 12. Chief engineer, E. Alzina.*

WATER SUPPLY—Source, Laguna creek; system, gravity; reservoir cap 80,000,000 gals; hydrants 109; pipe 39 miles, 2 to 16 in dia; pressure 100 pounds; works owned by city; cost to construct \$304,284.94; cost to date \$380,795; ann expenses \$3,080. Supt. O. J. Lincoln.

Santa Monica, Los Angeles Co., population 1,580; fire area 20 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 1 1/2 stories; wooden roofs are permitted; fireworks ordinance; cause of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,800 ft; value of fire department equipment \$2,500; value of buildings occupied \$900; total membership 30, volunteers; bell alarm. Foreman, G. B. Dexter; chairman of fire and water com, E. J. Vawters.

WATER SUPPLY—Source, springs 2 1/2 miles N. E. of town; system, gravity; reservoir cap 1,000,000 gals; pipe 12 miles, 2 to 16 in dia; pressure 70 pounds; waterworks owned by company; original cost to construct \$50,000; ann expenses \$8,000. Supt, Robt. F. Jones.

Santa Paula, Ventura Co., population 2,000; fire area 800 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 300 ft, inferior 100 ft; bell alarm; membership 50, volunteers. Chief, H. H. Younkers.

WATER SUPPLY—Source, Santa Paula creek; system, gravity; 2 reservoirs, cap 3,000,000 gals; hydrants 5; pipe 2 to 16 in dia; quality of water good; pressure 40 to 100 pounds; works owned by company; cost to construct \$70,000. Supt, D. G. Galley.

Santa Rosa, Sonoma Co., population 6,000; fire area 1,280 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,000 ft, leather 600 ft; 3 horses, value \$800; value of fire department equipment \$6,700; value of buildings occupied \$8,000; total ann expenses of department \$2,900; total membership 70, paid full time 3, paid part time 1, remainder volunteers; will change to paid department; 3 alarm bells. Chief engineer, Frank Muther.

WATER SUPPLY—Source, Santa Rosa creek and reservoir 4 miles east of city; system, gravity; reservoir cap 250,000,000 gals; standpipe 2 to 12 in each; hydrants 42; pipe iron 20 miles, 2 to 20 in dia; pressure, domestic 45, fire 45 pounds; waterworks owned by company; original cost to construct \$108,000; expenses of construction to date \$165,000; ann expenses \$7,000. Supt, A. J. McPike.

Selma, Fresno Co., population 1,150; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$500; total ann expenses of department \$2,500; total membership 38, all volunteers; alarm; 1 hook and ladder company, 1 hose company. Chief engineer, H. P. Gay.*

WATER SUPPLY—Source, well; system, pumping to tank; reservoir cap 55,000 gals; pumping engines, dy cap 800,000 gals; hydrants 12; pipe 11 miles, 2 1/2 to 6 in dia; 14 valves; pressure, do-

mestic 32, fire 75 to 110 pounds; waterworks owned by company; original cost to construct \$40,000; ann expenses \$3,500. Supt, A. E. Sake.*

Sonoma, Sonoma Co., population 757; fire area 100 acres; mercantile buildings, wood and stone, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 800 ft; value of fire department equipment \$2,000; buildings owned by city; total membership 40, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Chas. Engellert.*

WATER SUPPLY—Source, springs; system, pumping direct; reservoir cap 1,300,000 gals; hydrants 19; pipe 2 miles, 4 in dia; waterworks owned by private parties; original cost to construct \$7,000; expenses of construction to date \$17,300; ann expenses \$500. Supt, Eug. Robin.

Sonoma, Tuolumne Co., population 1,500; fire area 1 sq mile; mercantile buildings, stone and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 650 ft, inferior 150 ft, cotton good 400 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total membership 78, volunteer; 1 hook and ladder company, 2 hose companies. Chief engineer, P. P. Hunter.*

WATER SUPPLY—Source, springs 2 miles north of town; system, pump to reservoir; cap 149,000 gals, dy cap 300,000 gals. Paterson & Romans pumping engines; 35 hydrants; pipe 5 1/4 miles, 3 to 11 in dia; quality of water fine; fire pressure 50 to 150 pounds; waterworks owned by J. Ferguson; cost to construct \$40,000; ann expenses \$2,351. Supt, John Ferguson; mayor, Chas. Burden; town clerk, H. C. Burden.

Stockton, San Joaquin Co., population 18,000; fire area 2,580 acres; mercantile buildings, brick, stone and iron, 3 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—4 steam fire engines, 1 chemical engine on wheels, 2 aerial trucks, 3 hose carts, 1 hand hose reel; hose, rubber good 2,000 ft, inferior 250 ft, cotton good 4,000 ft, inferior 250 ft; 10 horses, value \$2,500; value of fire department equipment \$45,500; value of buildings occupied \$35,000; total ann expenses of department \$22,000; total membership 30, paid full time 7, paid part time 23; Gamewell electric alarm; street boxes 11 and 55 telephone boxes. Chief engineer, Israel Rolf.

WATER SUPPLY—Source, wells; system, pumping to 2 tanks and direct; pumping engine, dy cap 8,000,000 gals; hydrants 78; pipe 25 miles, 3 to 20 in dia; 3-4 in service pipe; waterworks owned by company. Supt, M. S. Thusher.

Suisun City, Solano Co., population 400; fire area 9 acres; mercantile buildings, brick and iron, 1 and 2 stories; dwellings, 1 and 2 stories. Fire department—1 hand engine, 1 hose carriage, 1 chemical engine, 8 chemical extinguishers; hose, cotton good 400 ft; value of fire department equipment \$2,000; value of buildings occupied \$800; bell fire alarm; total membership 28, all volunteers. Chief engineer, D. C. McDonald.*

WATER SUPPLY—Source, wells; system, pumping into elevated tank, cap 25,000 gals, cap per day 50,000 gals; pipe 2 1/2 miles, 3 in dia; quality of water good; owned by company; cost to construct \$10,751; ann expenses \$25,000. Supt, John Hucksin.*

Sutter Creek, Amador Co., population 1,351; fire area 20 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 1/2 stories. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft, inferior 200 ft; membership 40, volunteers; bell and whistle alarm. Chief engineer, H. Y. Murray.*

WATER SUPPLY—Source, Blue lake and north fork Mokelumne river; system, gravity; hydrants 39, Garden; pipe sheet iron 3 miles, 6 to 2 in dia; 12 valves; pressure, domestic 130, fire 210 pounds; waterworks owned by company. Supt, C. R. Downs.*

Templeton, San Luis Obispo Co., population 400; fire area 130 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, rub-

ber good 800 ft. inferior 200 ft. cotton good 500 ft. linen good 330 ft.; 4 horses, value \$300; value of fire department equipment \$1,400; value of buildings occupied \$230; total ann. expenses of department \$300; total membership 17, paid full time 3, paid part time 14, volunteer members 7; bell alarm; total no. of fire companies 2. Chief engineer, Ira E. Donelson.*

WATER SUPPLY—Source, river; system, pumping to reservoir; reservoir cap 45,000 gals; pumping engines, dy cap 96,000 gals; hydrants 14; pipe 2 miles, 4 and 5 in dia; 23 valves; pressure, domestic 21, fire 48 pounds; waterworks owned by company; original cost to construct \$7,000; expenses of construction to date \$9,000; ann. expenses \$800. Supt. Ira E. Donelson.*

Tulare, Tulare Co., population 4,000; fire area 1,200 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 4,000 ft. inferior 300 ft. cotton good 3,000 ft.; value of fire department equipment \$6,000; value of buildings occupied \$3,000; total ann. expenses of department \$1,000; total membership 32, volunteer; bell, electric alarm; street boxes 2. Chief engineer, James Vandever. (Aerial truck and chemical engine proposed.)

WATER SUPPLY—Source, artesian well; system, pumping to tanks; standpipe cap 80,000 gals; dy cap 1,440,000 gals; 24 hydrants; pipe 10½ miles, 2 to 10 in dia; 40 valves; pressure, domestic 25, fire 60 pounds; waterworks owned by company; cost to construct \$90,000. Pres. and supt. D.W. Madden.*

Ukiah, Mendocino Co., population 2,000; fire area 1 sq. mile; mercantile buildings, brick, tin roof, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 100 ft. cotton good 800 ft.; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total ann. expenses of department \$500; total membership 40, volunteers; bell and whistle alarm. Chief engineer, W. H. Chessall.

WATER SUPPLY—Source, well; system, pumping to reservoir and direct; reservoir cap 1,000,000 gals; pumping engines, dy cap 500,000 gals; 44 hydrants; pipe 8 miles, 2 to 10 in dia; waterworks owned by company; original cost to construct \$40,000. Supt. Wm. Elliott.*

Vacaville, Solano Co., population 725; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no firework ordinance. Fire department—1 hose carriage; hose, cotton good 800 ft.; value of fire department equipment \$700; value of buildings occupied \$100; total ann. expenses of department \$800; total membership 18, volunteer; bell alarm; 1 hose company. Chief engineer, Nathan Holt.

WATER SUPPLY—Source, 2 wells; system, pumping to reservoir; reservoir cap 110,000 gals; pumping engines, dy cap 200,000 gals; 20 hydrants; pipe 1 5-8 miles, 8 to 4 in dia; pressure, domestic 60, fire 60 pounds; waterworks owned by company; original cost to construct \$10,000; ann. expenses \$1,500. Supt. F.H. Buck.

Vallejo, Solano Co., population 6,343; fire area 5 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; no firework ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 7 hose carriages; hose, cotton good 1,650 ft. rubber good 3,000 ft. inferior 2,000 ft.; value of fire department equipment \$10,000; total ann. expenses of department \$5,000; total membership 124, paid full time 7, paid part time 4, volunteer members 113. Chief engineer, John Reddan.*

WATER SUPPLY—Source, lake 3 1-2 miles from city; system, gravity and pumping to reservoir; reservoir cap 350,000 gals; pumping engines, dy cap 1,440,000 gals; 84 hydrants; pipe 35 miles, 1-2 to 16 in dia; pressure, domestic 100, fire 200 pounds; waterworks owned by city; original cost to construct \$250,000; expenses of construction to date \$310,000; ann. expenses \$4,000. Secy and mgr. R. S. Knight.

Valley Springs, Calaveras Co., population not given; no fire department.*

WATER SUPPLY—Source, river; system, gravity; pumping to reservoir, cap 100,000 gals; 1 1/2 mile of 4 in pipe; pressure 50 ft.; cost to construct \$5,000; expenses to date \$5,000; ann. expenses \$500. Supt. H. A. Mensinger.

Ventura, Ventura Co., population 3,000; mercantile buildings, brick, wood and stone, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no firework ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages and 1 old cart; hose, rubber good 1,400 ft. inferior 200 ft.; value of fire department equipment \$3,000; value of buildings occupied \$600; total ann. expenses of department \$700; total membership 18, all volunteers; bell alarm. Chief engineer, Ed. M. Herschfelder.

WATER SUPPLY—Source, Ventura river located N. of town; system, pumping to reservoir; 2 reservoirs cap 100,000 gals each; pumping engines, dy cap 100,000 gals; 30 hydrants; pipe 20 miles, 25 to 3 in dia; pressure, domestic 80, fire 90 pounds; waterworks owned by company; cost to construct \$133,000; ann. expenses \$5,000. Supt. E. P. Foster.

Visalia, Tulare Co., population 3,000; fire area 1 1/2 miles sq; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; firework ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; hose, cotton 1,400 ft. rubber good 500 ft. inferior 300 ft.; 4 horses, value \$800; value of fire department equipment \$12,000; value of buildings occupied \$7,000; expenses of department for past year \$2,000; total membership 50, paid full time 3, paid part time 1, remainder volunteers; electric gong alarm; 5 street boxes, 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, H. Levinson.

WATER SUPPLY—Source, 5 wells 90 feet deep; system, pumping to 3 tanks; tanks cap 75,000 gals; pumping engines, dy cap 500,000 gals; 19 hydrants; pipe 7 miles, 3 to 8 in dia; pressure, fire 25 pounds; waterworks owned by company; original cost to construct \$50,000. Supt. and secy, A. Crowley.

Watsonville, Santa Cruz Co., population 3,000; fire area 1 mile sq; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; firework ordinance. Fire department—1 steamer, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft. rubber 500 ft. poor; value of fire department equipment \$2,000, exclusive of hose; value of buildings occupied \$8,000; total ann. expenses of department about \$300; total membership 48, chief paid, rest volunteers; 1 hook and ladder company, 2 hose companies. Chief engineer, H. F. Peckham.

WATER SUPPLY—Source, creek 7 miles distant; system, gravity; gravity to reservoirs, cap 2,600,000 gals; 40 hydrants; pipe 14 miles, 4 to 15 in dia; pressure 35 pounds; cost to construct \$150,000. Supt. A. White.

Wheatland, Yuba Co., population 800; fire area 80 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; metallic roofs used; firework ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft. 200 ft. cotton; value of fire department equipment \$1,000; value of buildings occupied \$1,500; ann. expenses \$175; total membership 30, all volunteers; bell alarm. Marshal, Wm. Amick.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; 2 reservoirs cap 60,000 gals; pumping engines, dy cap 280,000 gals; hydrants 23; pipe 2 miles, 2 to 6 in dia; 2 valves; pressure, domestic 40 ft. fire 100 pounds; waterworks owned by company; expenses of construction to date \$2,000; ann. expenses \$1,000. Supt. H. C. Niemeyer.

Willows, Colusa Co., population 1,176. Fire department—2 hose carts; hose, cotton good 900 ft.; total membership 25, all volunteers. Chief engineer, H. Bielar.*

WATER SUPPLY—Source, artesian well; system, pumping to tank; reservoir cap 100,000 gals; pumping engines, dy cap 25,000 gals; 27 hydrants; pipe 2 miles, 8 in dia; 12 valves; 2 meters; pressure, 35 pounds; waterworks owned by company; orig-

inal cost to construct \$50,000; expenses \$400 per month. Supt, L. Locher.*

Wilminston, Los Angeles Co., population 2,360; wooden roofs permitted.

WATER SUPPLY—Source, wells; system, pumping to tank and direct; reservoir cap 150,000 gals; pumping engines, dy cap, 1,000,000 gals; 22 hydrants; pipe 12 miles, 1 1/2 to 5 in dia; quality of water good; pressure, domestic 30, fire 120 pounds; waterworks owned by company. Supt, A. Young.*

Woodland, Yolo Co., population 3,039; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,600 ft, rubber good 500 ft; 4 horses, value \$500; value of fire department equipment \$8,000; total ann expenses of department \$1,000; value of building occupied \$30,000; total membership 80, paid full time 2, remainder volunteers; bell alarm; 1 engine and hose company, 1 hook and ladder company. Chief engineer, H. L. Prindle.*

WATER SUPPLY—Source, 3 artesian wells; system, pumping to tanks and direct; tank cap 210,000 gals; pumping engines, dy cap, 2,500,000 gals; 41 fire hydrants; pipe 12 miles, 2 to 12 in dia; pressure, domestic 25 pounds, fire 90 pounds; cost to city \$80,000; ann expenses \$6,500. Supt, W. N. Masters.

COLORADO.

Akron, Washington Co., population 900; fire area 160 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$200; total ann expenses of department \$300; total membership 12, volunteer. Chief engineer, Geo. M. Ball.*

WATER SUPPLY—Source, well; system, pumping to standpipe; reservoir cap 86,500 gals; standpipe cap 86,500 gals; pumping engines, dy cap 22,000 gals; hydrants 12; pipe 3 miles, 4 to 8 in dia; pressure, domestic 35, fire 100 to 140 pounds; waterworks owned by city; original cost to construct \$25,000. Chairman of com, T. F. Stokes.*

Alamosa, Conejos Co., population 973; fire area 30 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft, inferior 300 ft; total membership 60, volunteers. Chief engineer, C. L. Miller.

WATER SUPPLY—Source, artesian wells 850 ft; dy cap 1,000,000 gals; quality of water soft; pressure, domestic 200, fire 300 pounds; waterworks owned by city; cost to construct \$2,000. Village clerk, G. A. Willis.

Alma, Park Co., population 367; fire area 250 acres; mercantile buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 400 ft, rubber good 500 ft; value of fire department equipment \$6,500; value of buildings occupied \$1,000; total membership 50, paid part time 1, volunteer members 49; bell alarm.

WATER SUPPLY—Source, streams in town; Silsby Fire Engine Co., hydrants 4; pipe 1,000 ft, 2 1/2 in dia; cost to construct \$5,000; ann expenses \$200; works owned by city. Civil engineer, Willis Dearing.

Aspen, Pitkin Co., population 10,500; fire area 400 acres; mercantile buildings, fire limits brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted inside fire limits; fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 combination hose wagon and 2 horses; hose, linen good 3,500 ft, inferior 500 ft; value of fire department equipment \$10,500; value of buildings occupied \$13,000; total ann expenses of department \$11,000; total membership 87, paid full time 8, paid part time 5, balance volunteer; Gamewell alarm; 10 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, Frank E. Croman.

WATER SUPPLY—Source, creeks; system, gravity;

Yreka, Siskiyou Co., population 1,500; fire area 240 acres; mercantile buildings, brick, 1 story; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton 1,200 ft; value of fire department equipment \$8,000; value of buildings occupied \$3,000; total ann expenses of department \$150; total membership 119, volunteer; bell alarm; total no. of fire companies 3, 2 engine companies, 1 hook and ladder company. Chief engineer, U. F. Brown.

WATER SUPPLY—Source, springs and wells; system, gravity, pumping to reservoir; cap 60,000 gals; Heald & Co. pumping engines, dy cap 100,000 gals; pipe 2 1-2 miles, 3-4 to 5 in dia; works owned by Henry Scheld; cost to construct \$20,000; ann expenses \$600.

Yuba City, Sutter Co., population 562; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 1/2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 250 ft, cotton good 250 ft; value of equipment \$1,000.*

WATER SUPPLY—Source, bored wells; system, pump to reservoir; cap 60,000 gals; pumping engines, dy cap 100,000 gals; pipe 3 miles, 6 to 3 in dia; quality of water soft; pressure 24 pounds; waterworks owned by company; cost to construct \$25,000; ann expenses \$12. Supt, J. E. Orr.*

reservoir cap 121,700 gals; 58 hydrants, Ludlow; pipe 9 miles, 16 to 4 in dia. National Tube Works Co.; 50 valves, Ludlow; quality of water good; pressure, domestic 95 to 100 pounds, fire same; works owned by company; cost to construct \$200,000. Supt, H. G. Koch.

Berthoud, Larimer Co., population 500; fire area 15 acres; mercantile buildings, brick, 1 and 2 stories; private, wood and brick, 1 and 2 stories; no fireworks ordinance; wooden roofs not permitted. Fire department—1 hose carriage; 900 ft good cotton hose; 1 ladder; value of equipment \$1,000; value of buildings occupied \$600; expenses for past year \$300; total membership 18, volunteers; bell and whistle alarm. Chief engineer, F. I. Davis; chairman of fire and water com, W. D. Schuyler.

WATER SUPPLY—Source, surface water gathers in reservoir by gravity; pipe 3 miles; 5 hydrants; cost to construct \$12,000; ann expenses \$200. Supt, C. R. Blackwell.*

Black Hawk, Gilpin Co., population 1,067; fire area 300 acres; mercantile buildings, brick and stone, 1 1/2 stories; wooden roofs permitted. Fire department—3 hose carts, 2 steam pumps, 1,000 gals per minute; hose, cotton good 1,350 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,500; membership 25, all volunteers; steam whistle alarm. Chief engineer, Nels Kellerup.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 936,000 gals; 12 hydrants; 6 miles pipe, 2 to 4 in dia; pressure 120; works owned by city; cost to construct \$20,000; ann expenses \$1,000. Supt, Wm. R. Backus.

Boulder, Boulder Co., population 4,330; fire area 36 acres; mercantile buildings, brick and stone, 2 stories; private, brick and stone, 1 1/2 to 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 4,500 ft, 50 ft poor; value of fire department equipment \$5,000; value of buildings occupied \$10,000; total expenses for past year \$138; total membership 150, volunteers; bell and whistle alarm. Chief engineer, H. May.

WATER SUPPLY—Source, Boulder creek; system, gravity; cap of reservoir 6,000,000 gals; 87 hydrants; pipe 15 miles, 20 to 4 in dia; 65 valves; pressure 112 pounds; waterworks owned by city; cost to construct \$147,000. Supt, J. S. Mulford.*

Breckenridge, Summit Co., population 1,600; fire area 75 acres; mercantile buildings, iron and wood, 2 stories; private, wood, 1 story; wooden roofs used; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$200; to-

tal membership 93, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief, J. B. Dewers.

WATER SUPPLY—Source, stream; system, gravity; reservoir cap 5,000 gals; 40 hydrants; pipe 2½ miles, 2½ to 6 in dia; pressure 100 pounds; cost to date \$15,000; ann expenses \$2,000; cost to construct \$10,000. Water engineer, H. F. King.

Brighton, Arapahoe Co., population 400; fire area 200 acres; mercantile buildings, brick, 30 ft; private, wood, 1½ stories; wooden roofs permitted; fire works ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; electric alarm; value of fire department equipment \$1,300; total membership 50, volunteers; whistle alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, Geo. Lytle.

WATER SUPPLY—Source, wells; system, pumping to tank; tank cap 60,000 gals; dy cap of pumps 500,000 gals; hydrants 20; pipe 1 mile, 6 in dia; valves 40; service pipe lead; pressure, domestic 20, fire 125 pounds; waterworks owned by company. Pres, D. F. Carmichael.

Buena Vista, Chaffee Co., population 1,500; fire area 50 acres; mercantile buildings, brick, 1 story; private, brick. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,700 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of department \$150; total membership 25, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, Anthony Habig.

WATER SUPPLY—Source, creek; system, gravity; cap of reservoir 8,000 gals; 16 hydrants; pipe 2½ miles, 10 to 2 in dia; pressure domestic 67½ pounds; cost to construct \$35,000; cost to date \$45,000; works owned by city; ann expenses \$1,500. Supt, E. M. Kemble.

Canon City, Fremont Co., population 2,825; fire area 80 acres; mercantile buildings, brick, 1 and 2 stories. Fire department—2 Babcock chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 400 ft, inferior 300 ft, linen good 1,700 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total membership 34, volunteer members; bell alarm. Chief engineer, John F. Hood.*

WATER SUPPLY—Source, Arkansas river; system, pumping to reservoir; reservoir cap 75,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 34; pipe 5 miles, 4 to 8 in dia; pressure, domestic 40, fire 80 pounds; waterworks owned by city; original cost to construct \$60,000; ann expenses \$3,500. Supt, Geo. T. Conway.

Cardiff, Garfield Co., population 522. Fire department not reported.

WATER SUPPLY—Source, Roaring Fork river; system, pumping to reservoir; reservoir cap 30,000 gals; pumping engines, dy cap 50,000 gals, Dean; hydrants 16; pipe, iron; 28 valves; pressure 70 pounds; waterworks owned by company.

Caribou, Boulder Co., population 500; fire area 40 acres; mercantile buildings, wood, 1½ stories; private, wood, 1½ stories; wooden roofs are permitted; fire works ordinance; causes of fire investigated. Fire department—hose, rubber good 600 ft; value of buildings occupied \$300; total ann expenses of department \$100; total membership 10, volunteer. Chief engineer, H. Minckler.*

WATER SUPPLY—Source, springs; system, gravity; hydrants 1; pipe 2 miles, 3 to 9 in dia; taps 10; pressure 300 ft; ann expenses \$100. Supt, H. Minckler.*

Cascade, El Paso Co., population 600; buildings, wood, 1 and 2 stories; no fire department.*

WATER SUPPLY—Source, reservoir located on Cascade creek; system, gravity; pipe 3 miles; hydrants 7; quality of water good; cost to construct \$10,000. Pres, D. N. Herzer; supt, E. E. Doane.*

Central City, Gilpin Co., population 2,500; fire area 1,000 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fire works ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 2,500 ft, inferior 1,500 ft; value of fire department equipment \$3,000; total membership 90; bell alarm; 1 hook and ladder company, 2

hose companies. Chief engineer, William J. Lamont.*

WATER SUPPLY—Source, springs 4½ miles from city; system, gravity; reservoir cap 602,000 gals; hydrants 8; pipe 2 to 3 in dia; pressure 103 pounds; waterworks owned by city; original cost to construct \$90,000; int on bonds 8 per cent. Supt, Jas. Rule.*

Colorado City, El Paso Co., population 3,000; fire area 240 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, pine wood, 1 and 2 stories; wooden roofs permitted; fire works ordinance. Fire department—1 hose carriage, 1 hose, ladder and supply wagon; hose, cotton good 1,300 ft; value of fire department equipment \$1200; value of buildings occupied \$8,000; total membership 40, volunteer members; bell alarm. Chairman of fire com, Jas. Brophy.

WATER SUPPLY—Source, Sutherland creek, 2 miles distant; system, gravity; reservoir cap 5,000, 000 gals; hydrants 30; pipe 30 miles, 3 to 10 in dia; 10 valves; pressure, domestic 80, fire 80 to 120 pounds; waterworks owned by Colorado City Water Co.; original cost to construct \$20,000; expenses of construction to date \$40,000; ann expenses \$200. Pres and supt, Anthony Bott.*

Colorado Springs, El Paso Co., population 14,000; fire area 4 sq miles; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2½ stories; wooden roofs not permitted in fire limits; fire works ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 8 hose carriages, all kinds; hose, cotton good 10,000 ft, inferior 2,000 ft; value of fire department equipment, with buildings occupied \$10,000; total ann expenses of department \$8,000; total membership 298, paid part time 1, paid full time 1, volunteer members 378; Ganewell alarm; 28 street boxes; total no. fire companies 9, 1 hook and ladder company, 8 hose companies. Chief engineer, Nels Johnson.

WATER SUPPLY—Source, streams; system, gravity; 3 reservoirs cap 133,250,000 gals; hydrants 126; pipe 65 miles, 3 to 20 in dia; service pipe lead and iron; pressure 85 pounds; waterworks owned by city; expenses of construction to date \$500,000; ann expenses \$3,000. Supt, Edw. W. Frost.

Crested Butte, Gunnison Co., population 1,500; fire area 10 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fire works ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, 1,000 ft good rubber hose; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of department \$50; total membership 34, volunteers; triangle fire alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Frank E. Songer.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 20,000,000 gals; hydrants 12; pipe 5 miles, 3 to 12 in dia; 8 valves; pressure 300 ft; waterworks owned by company; original cost to construct \$35,000; expenses of construction to date \$35,000; ann expenses \$2,000. Supt, H. C. Wright.

Cripple Creek, El Paso Co.

WATER SUPPLY—Source, Beaver creek; system, gravity to reservoir; reservoir cap 1,500,000 gals; hydrants 40; pipe 12 miles, 4 to 8 in dia; pressure 20 to 110 pounds; waterworks owned by company; cost to construct \$100,000. Supt, E. H. Smith.

Del Norte, Rio Grande Co., population 1,200; fire area 25 acres; mercantile buildings, brick iron and stone, 2 stories; private, wood and brick, 1½ and 2 stories; wooden roofs not permitted; fire works ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,800 ft; rubber wood 200 ft, poor 100 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 90, volunteers; bell alarm; total no. of fire companies 4, no. of engine companies 1, 1 hook and ladder company, 2 hose companies. Chief engineer, John Clegborn.

WATER SUPPLY—Source, Rio Grande river; system, pumping to reservoir and direct; reservoir cap 290,000 gals; pumping engines, dy cap 605,000 gals; hydrants 19; pipe 1,900 ft, 3 to 10 in dia; service pipe 3-4 in galv iron; pressure, domestic 100 fire 150 pounds; waterworks owned by town of Del Norte; original cost to construct \$25,000; ex.

penes of construction to date \$25,000; ann expenses, \$1,100. City civil engineer, Geo. D. Nick-el.

Delta, Delta Co., population 1,100; mercantile buildings, brick, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; 400 ft good cotton hose; total membership 35, volunteers; bell alarm; 1 hose company. Chief engineer, I. M. McMurray.

WATER SUPPLY—Source, Gunnison river; system, pump to tank; cap of tank 65,000 gals; pumping engines, dy cap 32,000 gals; 17 hydrants; pipe 3 miles, 5 to 3 in dia; 5 valves; pressure, domestic 65 pounds, fire 65; works owned by city; cost to construct \$15,000; ann expenses \$600. Supt, Geo. W. Smith.

Denver, Arapahoe Co., population 160,000; fire area 16,800 acres; mercantile buildings, stone and brick, 1 to 10 stories; private, stone and brick, 1 to 5 stories; wooden roofs not permitted; fireworks ordinance; cause of fire investigated. Fire department—7 steam fire engines, 2 chemical engines on wheels, 21 chemical extinguishers, 3 hook and ladder trucks, 2 aerial trucks, 13 hose wagons, 1 water tower; hose, cotton good 6,800 ft, inferior 1,000 ft, rubber good 3,500 ft, inferior 500 ft, linen good 350 ft; 74 horses, value \$18,200; value of fire department equipment \$184,920; value of buildings occupied \$198,000; total ann expenses of department \$160,000; total membership 116, paid full time; Gamewell alarm; street boxes 130. Chief engineer, Julius Pearse.

WATER SUPPLY—Source, Platte river and Cherry creek, 10 miles east of city; system, gravity and pumping direct; cap 20,000,000 gals; Holly pumping engines, dy cap 28,000,000 gals; hydrants 1,575, Holly; pipe 300 miles, 6 to 36 in dia, various; 1,800 valves, various; 108 meters, various; quality of water good; pressure, domestic 115, fire 100 pounds; Bristol pressure recording gauge; works owned by company. Receiver, Dennis Sullivan; supt, David G. Thomas.

Durango, La Plata Co., population 6,500; fire area about 300 acres; mercantile buildings, brick, 2, 3 and 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,000 ft; 2 horses, value \$350; value of fire department equipment \$6,500; value of buildings occupied \$8,000; paid full time 4, paid part time 5; volunteer members 115; electric fire alarm; 8 street boxes. Chief engineer, Geo. Goodman.

WATER SUPPLY—Source, Amonas river; system, pumping to reservoir; reservoir cap 2,500,000 gals; standpipe cap 400,000 gals; pumping engines, dy cap 1,300,000 gals; hydrants 55; pipe 12 miles, 4 to 10 in dia; 40 valves; pressure 165 pounds; waterworks owned by city. Supt, W. S. Dar-row.

Empire, Clear Creek Co., population 134; mercantile buildings, wood, 1 and 2 stories. Fire department—1 hook and ladder truck; value of fire department equipment \$600; total membership 25. Chief engineer, Wm. Moore.*

WATER SUPPLY—Source, wells.*

Evans, Weld Co., population 350; fire area 160 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of equipment \$475; value of building occupied \$200; bell alarm; all volunteers. Chief engineer, Geo. H. Young.

WATER SUPPLY—Source, artesian well 1,200 ft deep, flowing and pumping by wind mill; reservoir cap 700 to 800 gals; ann expenses \$800; cost to construct \$2,500. Supt, Geo. Delbert.

Fairplay, Park Co., population 301; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories. Fire department—1 hose carriage and several ladders; hose, cotton good 1,200 ft, rubber 500 ft; membership 25, volunteers; bell alarm. Chief engineer, J. C. Cohen.

WATER SUPPLY—Source, spring one mile from reservoir; system, gravity; reservoir cap 500,000 gals; hydrants 13; 60 taps; pipe 2½ miles, 6 to 3 in dia; 9 valves; quality of water good; pressure, domestic 80, fire same; waterworks owned by city;

cost to construct \$10,000; ann expenses \$1,000; int on bonds \$280. Supt, W. G. Smith.*

Fort Collins, Larimer Co., population 3,000; fire area 1 by 1 1-4 miles; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and stone, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages (2 at col-lege); hose, cotton good 2,500 ft, inferior 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$8,000; total ann expenses of department \$500; total membership 50, volunteer members; bell alarm; 1 hook and ladder company, 4 hose companies. Chairman of fire and water com., L. Giddings; chief, Herman H. Schroder.

WATER SUPPLY—Source, river; system, pumping direct; pumping engines, dy cap 3,000,000 gals; hydrants 50; pipe 13 miles, 3 to 10 in dia; 29 valves; service pipe, galv iron; pressure, domestic 60, fire 150 pounds; waterworks owned by city; original cost to construct \$105,000; ann expenses \$1,800; int on bonds 7 and 8 per cent. Supt, C. B. Ros-now.*

Georgetown, Clear Creek Co., population 2,800; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and lad-der truck, 4 hose carriages; hose, cotton good 1,100 ft, rubber good 2,800 ft; value of fire department equipment \$4,200; value of buildings occupied \$10,000; total ann expenses of department \$1,150; total membership 160; bell alarm; 1 hook and lad-der company, 3 hose companies. Chief engineer, James U. Harris.

WATER SUPPLY—Source, creek; system, gravity; 25 hydrants, Ludlow Beaumont; pipe 4 miles, 3 to 12 in dia; pressure, domestic 45 to 80, fire 120 to 180 pounds; waterworks owned by city; original cost to construct \$27,000; expenses of construction to date \$33,170; ann expenses \$1,000. Supt, Thos. B. Campbell.

Glenwood Springs, Garfield Co., population 920; fire area 4 blocks; mercantile buildings, brick, principally 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 2,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total membership 75, volunteers; bell alarm. Chief engineer, W. H. Spear.

WATER SUPPLY—Creek, 3 miles from town; sys-tem, gravity; 25 hydrants; pipe 11 miles, 24 to 4 in dia; pressure, domestic 40 to 90, fire 80 pounds; works owned by company; cost to construct \$85,000; expenses to date \$165,000. Mangr, M. W. Mather.

Golden, Jefferson Co., population 3,500; fire area 320 acres; mercantile buildings, brick, 3 stories; private, brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and lad-der truck, 2 hose carriages; other appara 1,100 ft, tua, 2 Babcock extinguishers; hose, rubber good cotton good 700 ft; value of fire department equip-ment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$125; total mem-bership 102; paid full time 2, volunteer members 100. Chief engineer, T. B. Tubbs.

WATER SUPPLY—Source, Clear creek; system, pump direct into mains; pumping engines, dy cap 1,500,000 gals; 31 hydrants; pipe 6 miles, 2 to 8 in dia; 18 valves; pressure, domestic 70, fire 125 pounds; works owned by city; cost to construct \$50,000; ann expenses \$4,000. Supt, J. H. Titus.

Grand Junction, Mesa Co., population 3,000; fire area 98 acres; mercantile buildings, brick and wood, 2 stories; private, brick, 1 story; wooden roofs permitted; fireworks ordinance. Fire de-partment—1 hook and ladder truck, 2 hose car-riages, 1 hose wagon, 2 Holloway extinguishers; hose, rubber good 1,300 ft, inferior 100 ft; value of fire department equipment \$2,500; value of buildings occupied \$5,000; total ann expenses of department \$1,000; total membership 60, volun-teers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, I. N. Bunting.

WATER SUPPLY—Source, well; system, pump di-rect; stan-pipe cap 60,000 gals; pumping engines, dy cap 1,500,000; 55 hydrants; pipe 6 miles, 4 to 10 in dia; 16 valves; pressure, domestic 60, fire 80 to

100 pounds; works owned by company; cost to construct \$80,000. Supt. N. J. Krusen.

Greeley, Weld Co., population 3,000; fire area 48 acres; mercantile buildings, stone, brick and wood, 1, 2 and 3 stories; private, brick and wood, 1 and 2 stories; roofs, shingles and tin; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft, inferior 500 ft; 2 horses, value \$400; value of fire department equipment \$8,000; value of building occupied \$3,500; total ann expenses of department \$1,000; total membership 35, volunteers; hand bell alarm. Chief engineer, D. F. Camp.

WATER SUPPLY—Source, well; system, gravity; pumping to standpipe and direct, cap 158,000 gals; Holly pumping engines, dy cap 1,000,000 gals; 46 hydrants; pipe 11 1-4 miles, 4, 6, 8, 10 and 12 in dia, serv pipe lead; pressure, domestic 70, fire 100 pounds; works owned by city; cost to construct \$57,000; ann expenses \$3,000. Supt. M. F. Henderson.

Gunnison, Gunnison Co., population 1,105; mercantile buildings, stone and frame, 1, 2 and 3 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,800 ft; value of fire department equipment \$8,000; total membership 55, all volunteers; 3 hose companies. Chief engineer, Frank E. Dean.*

WATER SUPPLY—Source, Gunnison river; system, pumping to tank; reservoir cap 60,000 gals; standpipe cap 60,000 gals; pumping engines, dy cap 1,500,000 gals; 52 hydrants; pipe 3 1-2 miles, 6 to 12 in dia; pipe lead and galv iron; pressure, domestic 85, fire 125 pounds; waterworks owned by company; original cost to construct \$45,000; ann expenses \$3,500. Supt. D. J. McCann.

Highlands, Arapahoe Co., population 7,861; fire area 2 sq miles; mercantile buildings, brick and stone, 2 stories; private, brick and stone, 20 ft; wooden roofs are permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 2 hose carriages, all kinds, other apparatus 1 combination, hose, ladder and chemical wagon; hose, cotton good 1,450 ft, rubber A 1,900 ft; 2 horses, value \$500; value of fire department equipment \$6,000; value of buildings occupied \$8,000; total ann expenses of department \$5,800; total membership 45, paid full time 5, volunteer members 40; Gamewell alarm; no. of street boxes 14. Chief engineer, Daniel J. Sadlier. Steamer and hook and ladder to be added.

WATER SUPPLY—Source, Cherry creek and Platte river; system, pumping direct and to reservoir; reservoir cap 2,000,000 gals; standpipe cap 90,000 gals; pumping engines, dy cap 20,000,000 gals; 226 hydrants; pipe 37 miles, 14 to 4 in dia; 220 valves; pressure 60 pounds; Edison pressure recording gauge; works owned by company; cost to construct \$400,000; ann expenses \$12,000; Int on bonds \$5,300. Supt. Robert H. Porter.*

Holyoke, Phillips Co., population 649; mercantile buildings, wood, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages, 3 100-ft ladders; hose, cotton good 1,500 ft; value of fire department equipment \$1,200; value of building occupied \$250; total membership 20, volunteers; bell alarm; 1 street box; 2 hose companies. Chief engineer, G. W. Garland.*

WATER SUPPLY—Source, well 1 mile from city; tank cap 52,000 gals; standpipe cap 65,000 gals; 16 hydrants; 20 valves; pressure, domestic 40, fire 175 pounds; waterworks owned by company. Supt. W. C. Powers.*

Idaho Springs, Clear Creek Co., population 1,800; mercantile buildings, brick, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,500 ft, cotton good 200 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 75, paid part time, volunteer; bell, whistle and electric alarm; street boxes 6; total no fire companies 3, 1 hook and ladder company, 2 hose companies. Chief engineer, W. L. Bush.

WATER SUPPLY—Source, mountain creeks; system, gravity; 2 reservoirs, cap 1,500,000 gals; 24

hydrants; pipe 3 miles, 4 to 10 in dia; 12 Eddy gates; quality of water pure; pressure 80 to 120 pounds; cost to construct \$25,000; ann expenses \$1,500. Supt. H. O. Walker.

Juliesburg, Sedgwick Co., population 700; fire area 20 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck; hose, rubber good 200 ft, inferior 100 ft; value of fire department equipment \$300; value of buildings occupied \$200; total membership 20, volunteer. Chief engineer, E. H. Steavens.

WATER SUPPLY—Source, wells, 16 to 30 ft deep.

LaJunta, Otero Co., population 5,000; fire area 640 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—12 chemical extinguishers, 4 hose carriages, 1 hose wagon, 1 hook and ladder truck; hose, cotton good 1,700 ft, rubber good 500 ft, inferior 50 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total membership 25, 1 paid full time, 24 paid part time; bell alarm. Chief engineer, C. W. Wonderly.

WATER SUPPLY—Source, wells; system, pump to reservoir tank, cap 50,000 gals; pumping engines, dy cap 1,000,000 gals; 15 hydrants; pipe 3 3-4 miles, 3, 4, 6 and 8 in dia; 12 valves, Ludlow; quality of water good; pressure, domestic 40, fire 100 pounds; works owned by the LaJunta Water Co.; cost to construct \$35,000; ann expenses \$3,000. Supt. W. A. Drake, of Pueblo, Col.*

Lake City, Hinsdale Co., population 607; fire area 4 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—15 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, inferior 100 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; membership 80, volunteers; bell alarm. Chief engineer, J. W. Edgerton.*

WATER SUPPLY—Source, Gunnison river, 1 mile distant; system, gravity; 17 hydrants; pipe 1 mile, 10 to 4 in dia; 11 valves; pressure, domestic 42, fire 48 pounds; service pipe 3-4 in galv iron; works owned by city; cost to construct \$19,500; ann expenses \$400. Supt. F. H. Thompson.

Lamar, Bent Co., population 569; mercantile buildings, brick and wood, 1 and 2 stories. Fire department—1 hook and ladder truck, 1 hose carriage; alarm couplings used; hose, rubber good 600 ft; value of fire department equipment \$2,000; total membership 35; bell alarm. Chief engineer, Fred Schmidt.*

WATER SUPPLY—Source, wells; system, pumping to tank and direct; cap 75,000 gals, Knowles; 64 hydrants; pipe 4 miles, 4 in dia; pressure 60 pounds; worked owned by city; cost to construct \$28,000; ann expenses \$700. Supt. Frank J. Holmes.

Las Animas, Bent Co., population 1,000; fire area 4 miles; mercantile buildings, brick and wood, 18 to 30 ft; private, wood, 12 to 20 ft; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft, 100 ft poor; total membership 35, volunteers; 2 fire companies, 1 hook and ladder company, 1 hose company; bell alarm. Chief, Tom Marshall.*

WATER SUPPLY—Source, well; system, pumping to tank and direct; standpipe cap 92,000 gals; pumping engines, dy cap 1,500,000 gals; 32 hydrants; pipe 3 miles, 4 to 8 in dia; 38 valves; pressure, domestic 18, fire 160 pounds; waterworks owned by city; original cost to construct \$30,000; expenses of construction to date \$40,000; ann expenses \$2,000. Supt. Tom Harvey.

Leadville, Lake Co., population 12,000; fire area 1 1-2 sq miles; mercantile buildings, brick and wood, 1 to 4 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck 3 hose carriages, all kinds; other apparatus, 1 hand hose cart; hose, cotton good 5,000 ft; 5 horses, value \$1,550; value of fire department equipment \$24,000; value of buildings occupied \$10,000; total ann expenses of department \$15,000; total mem-

bership 11, paid full time; Gamewell alarm; street boxes 14; 1 hook and ladder company, 3 hose companies. Chief engineer, Chas. E. Goodfriend.

WATER SUPPLY—Source, mountain streams; system, gravity and pump to reservoir: cap 10,000,000 gals; pumping engines, dy cap, 1,000,000 gals; 135 hydrants; pipe 15 miles, 4 to 20 in dia; pressure, domestic 80, fire 150 pounds; cost to construct \$300,000; int on bonds 8 per cent. Supt, C. N. Priddy.*

Littleton, Arapahoe Co., population 1,000; fire area 500 acres; mercantile buildings, brick, 1 story; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$800; value of buildings occupied \$1,000; total ann expenses of department \$350; total membership 30, volunteers; electric bell alarm; 3 street boxes; 1 hose company. Chief engineer, R. W. Candler.

WATER SUPPLY—Source, artesian wells; system, pumping direct to main; reservoir cap 95,000 gals; pumping engines, dy cap 300 gals per min; 22 hydrants, Holly; pipe 8,000 ft, 8 to 5 in dia; service pipe iron and lead; pressure, domestic 60, fire 200 pounds; waterworks owned by company; original cost to construct \$12,000; expenses of construction to date \$15,000; ann expenses \$1,200. Supt, E. L. Chatfield.

Longmont, Boulder Co., population 1,543; fire area 20 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,800; total ann expenses of department \$60; total membership 60, all volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, W. H. A. Tiffany.*

WATER SUPPLY—Source, St. Vrain river; system, gravity; reservoir cap 500,000 gals; 38 hydrants; pipe 23 miles, 3 to 8 in dia; service pipe wrought iron; pressure, domestic 54, fire 54 to 125 pounds; waterworks owned by city; original cost to construct \$70,000; expenses of construction to date \$83,000; ann expenses \$1,000. Supt, Geo. W. Brown.

Loveland, Larimer Co., population 1,200; fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 story; fireworks ordinance. Fire department—1 hose carriage, 1 supply wagon; hose, rubber good 2,000 ft; value of fire department equipment \$1,000; value of buildings \$800; ann expenses \$300; total membership 35, all volunteers; bell alarm. Chief engineer, H. G. Shallenberger.

WATER SUPPLY—Source, Big Thompson river; system, gravity; 13 hydrants; pipe 13 miles, 2 to 6 in dia; 18 valves; quality of water good; pressure, domestic 80, fire 110 pounds; waterworks owned by city; cost to construct \$41,000; ann expenses \$300. Supt, R. L. Beeson.

Manitou Springs, El Paso Co., population 1,439; fire area 2 by 1-2 miles; mercantile buildings, stone and brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, 100 ft poor; value of fire department equipment \$2,500; value of buildings occupied \$5,000; total expenses of department \$400; total membership 45, volunteers; bell alarm; 4 street boxes, Loomis. Fire marshal, E. P. Creighton.

WATER SUPPLY—Source, French creek; system, gravity; reservoir cap 1,500,000 gals; 33 hydrants, pipe 12 miles, 3 to 10 in dia; 50 valves; pressure 35 pounds; waterworks owned by the city; cost to construct \$70,000; ann expenses \$4,500; int on bonds 6 per cent. Supt, C. M. Elerick.

Monte Vista, Rio Grande Co., population 1,500; mercantile buildings, wood and stone, 1 and 2 stories; private, wood and stone, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance in limits; causes of fire investigated. Fire department—20 chemical extinguishers, 1 hook and ladder truck; other apparatus, buckets and ladders.*

WATER SUPPLY—Source, wells and tank. Mayor, W. J. Clark.*

Montrose, Montrose Co., population 2,000; fire area 65 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, linen good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; total ann expenses of department \$250; total membership 25, paid part time, 2 volunteer members 23; telephone and bell alarm; total no of fire companies 1. Chief engineer, A. F. Reeves.*

WATER SUPPLY—Source, river; system, pumping direct; pumping engines, 15 hydrants; pipe 3 miles, 4 to 8 in dia; service pipe, black iron; pressure 100 to 110 pounds; waterworks owned by city; original cost to construct \$22,000; expenses of construction to date \$26,000; ann expenses \$3,000. Supt, H. E. Mathews.

Morrison, Jefferson Co., population 254; mercantile buildings, wood and stone, 1 story; wooden roofs permitted.*

WATER SUPPLY—Source, Beer creek; system, gravity; reservoir 20 ft sq 9 ft deep; 5 hydrants; pipe 1 mile, 3 to 7 in dia; 5 valves; pressure 85 ft gravity; waterworks owned by company; original cost to construct \$3,500; expenses of construction to date \$4,000; ann expenses \$150. Supt, James Abbo.

Newcastle, Garfield Co., population 1,000; fire area 120 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 400 ft, inferior 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,000; total membership 35, volunteers; bell alarm. Chief engineer, B. A. Mitchell.

WATER SUPPLY—Source, East Fork of Elk creek; system, gravity; pipe 4 miles; 12 hydrants; pressure, domestic 60, fire 110 pounds; cost to construct \$10,500; cost to date about \$20,000; ann expenses \$500. Supt, Peter Schmiders.

Ouray, Ouray Co., population 2,600; fire area 6 blocks; mercantile buildings, brick, wood, stone, and iron, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft, inferior 1,200 ft, rubber good 500 ft; value of fire department equipment \$3,500; total ann expenses of department \$600; total membership 65, volunteers; bell alarm; 2 engine companies, 1 hook and ladder company, 1 hose company. Chief engineer, C. W. Haskins.

WATER SUPPLY—Source, spring 4 miles from town; system, gravity; reservoir cap 1,000,000 gals; 23 hydrants; pipe 7½ miles, 3 to 12 in dia; 28 valves; pressure, domestic 70, fire 120 pounds; waterworks owned by city; original cost to construct \$33,000; expenses of construction to date \$35,000; ann expenses \$2,000. Supt, W. D. Mowser.

Palmer Lake, El Paso Co., population 306; fire area 6 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; bucket brigade.*

WATER SUPPLY—Source, Monument creek; system, gravity; 6 hydrants; pipe 3 miles, 3 and 4 in dia. Wreckoff; cost to construct \$7,000; ann expenses \$60. Supt, W. Hughes.*

Pueblo, Pueblo Co., population, 35,000; fire area 94 sq miles; mercantile buildings, stone and brick, 3 to 6 stories; private, brick, stone and wood, 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 7 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages, all kinds, 1 supply wagon, other apparatus, 4 hose reels outside district; hose, cotton good 5,850 ft, rubber good 2,150 ft; 15 horses, value \$4,000; value of fire department equipment \$30,000; value of buildings occupied \$40,000; total ann expenses of department \$30,000; total membership 23, paid full time; Gamewell alarm; no of boxes 41, city 5 private. Chief engineer, Geo. W. Hook.

WATER SUPPLY—Source, Arkansas river, 4 miles west of city; system, gravity; reservoir cap 2,621,100 gals; pumping engine, dy cap 11,000,000 gals; 304 hydrants; pipe 42 miles, 4 to 24 in dia; 210 valves; pressure, domestic 90, fire 120 pounds; waterworks owned by taxpayers north of Arkan-

sas river, controlled by 8 aldermen as trustees; original cost to construct \$496,324; ann. expenses \$30,000. Supt. James E. Douglas.

Rico, DeClore Co., population 1,134; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance.*

WATER SUPPLY—Source, Silver creek; system, gravity; reservoir cap 30,000 gals; 8 hydrants; Galvin; pipe 1 mile, 4 in dia, Colorado Iron Works; 8 valves; pressure 65 pounds; waterworks owned by city; original cost to construct \$5,000; ann. expenses \$1,000; int paid on bonds \$400 annually. Supt. T. J. Lewis.

Rocky Ford, Otero Co., population 800; fire fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted, but tin mostly used; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 50 ft, cotton good 300 ft; value of fire department equipment \$700; value of buildings occupied \$100; total ann. expenses of department \$125; total membership 16, volunteers Chief engineer, Chas. Staples.

WATER SUPPLY—Source, Arkansas river; system, gravity, with reservoir; cap of reservoirs 5,150,000 gals; 7 hydrants; L. M. Rumsey & Co.; pipe 1 mile, 6 to 4 in dia; 2 valves, Ludlow; 48 taps; 1 to 2 in galv iron service pipes, filtered through brick; pressure for fire purposes 80 pounds; works owned by city; cost to construct \$7,000; expenses to date \$9,500; ann. expenses \$100; int paid on bonds \$480. Supt. Dan Scott.

Salida, Chaffee Co., population 2,586; mercantile buildings, brick, 1 and 2 stories; private, same. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 5,390 ft, inferior 1,000 ft; value of fire department equipment \$1,300; total ann. expenses of department \$1,000; total membership 70, volunteers; bell alarm. Chief, Frank Churchill.

WATER SUPPLY—Source, springs 2½ miles from town; system, gravity; reservoir cap 75 ft, 200 ft by 8 ft deep; 34 hydrants; pipe 8½ miles, 4 to 12 in dia; 28 valves; service pipe galv iron and lead 3-4 in dia; pressure, fire 80 to 100 pounds; waterworks owned by city; original cost to construct \$71,000; expenses of construction to date \$1,000; ann. expenses \$800. Supt. H. W. Hauser.

Silver Cliff, Custer Co., population 546; fire area 80 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story. Fire department—5 chemical extinguishers, 1 chemical engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft; value of buildings occupied \$1,000; membership 43, volunteers; bell alarm. Chief engineer, Jno. A. Feist.

WATER SUPPLY—Source, springs; system, pump to reservoir and direct pumping engines, dy cap 1,000,000 gals; 27 hydrants; pipe 8 miles, 8 to 12 in dia; pressure 90 pounds; waterworks owned by company; cost to construct \$75,000; ann. expenses \$600. Supt. H. W. Foss.

Silverton, San Juan Co., population 1,154; mercantile buildings, brick, stone and wood, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,800 ft, inferior 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,200; total ann. expenses of department \$250; total membership 60, volunteers; bell and electric alarm connected with steam whistle; 1 box. Chief engineer, Joseph Bordeleau.

WATER SUPPLY—Source, Boulder creek; system, gravity; reservoir cap 3,000,000 gals; 15 hydrants; pipe 6 miles; 30 valves; pressure, domestic 80, fire

85 pounds; waterworks owned by company; cost to construct \$40,000; cost to date 48,000; ann. expenses \$2,800. Supt. W. W. Reese.

Sterling, Logan Co., population 540; mercantile buildings, wood, 1 story; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck.*

WATER SUPPLY—Source, private wells and cisterns.*

Telluride, San Miguel Co., population about 2,000; fire area 200 acres; mercantile buildings, wood, brick and stone, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, 500 ft poor; value of fire department equipment \$2,500; value of building occupied \$3,500; expenses for past year \$150; total membership 32, volunteers; bell alarm. Foreman, W. A. Taylor.

WATER SUPPLY—Source, creek; system, gravity; reservoir cap 140,000 gals; 8 hydrants; pipe 3,000 ft; pressure 160 pounds; cost to construct \$20,000; int paid on bonds 8 per cent. Town clerk, C. S. Watson.

Trinidad, Las Animas Co., population 7,500; fire area 1,000 acres; mercantile buildings, brick and stone, 2 to 5 stories; private, brick and wood, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 1,500 ft, inferior 150 ft; 2 hors s, value \$200; value of fire department equipment \$4,350; value of buildings occupied \$6,000; total ann. expenses of department \$5,000; total membership 10, paid full time 5 paid part time 5; telephone and box alarm; 18 street boxes. Chief engineer, L. H. Roberts.

WATER SUPPLY—Source, mountain streams, 12 miles above city; system, gravity, pumping to reservoir; reservoirs cap 36,000,000 gals; pumping engines, dy cap 2,000,000 gals; 132 hydrants; pipe 20 miles, 1 to 16 in dia; 32 valves; pressure 90 to 140 pounds; works owned by company; cost to Jan. 1, 1892, \$274,571.54; int on bonds 6 per cent. Supt. W. B. Cunningham.

Walsenburg, Huerfano Co., population 1,283; fire area 100 acres; mercantile buildings, brick, stone and wood, 1 and 2 stories; private, wood, 1 story. Fire department—1 hose carriage; hose, cotton good 500 ft, inferior 50 ft; 130 ft extension ladders; value of buildings occupied \$100; total membership 34, volunteers; bell alarm; 1 hose company. Chief engineer, W. D. Matthews.

WATER SUPPLY—Source, Lake Mead, 3 miles west; system, gravity; 14 hydrants, Ludlow; pipe 6 miles; pressure 80 pounds; waterworks owned by company; original cost to construct \$50,000. Owner, W. N. Cole, Jr. of N. Y.

Yuma, Yuma Co., population 851; mercantile buildings, brick and wood, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; fireworks or finance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage; hose, linen good 800 ft; value of fire department equipment \$500; value of buildings occupied \$80; total ann. expenses of department \$50; total membership 50, paid part time 10, volunteer members 40; bell alarm. Foreman, P. H. Shea.

WATER SUPPLY—Source, well 200 ft deep; system, pumping to reservoir; reservoir cap 120,000 gals; standpipe cap 10,000 gals; pipe 4,000 ft, 6 in dia; 10 hydrants; quality of water good; pressure, domestic 70, fire 150 pounds; works owned by city; cost to construct \$10,000; ann. expenses \$1,500. Town clerk, L. B. Masser.

CONNECTICUT.

Ansonia, New Haven Co., population 11,000. Fire department—1 hook and ladder truck, 7 hose carriages; hose, cotton good 5,000 ft, linen good 500 ft, leather good 500 ft; 100 volunteer members; Game well alarm. Chief engineer, W. O. Wallace.

WATER SUPPLY—Fountain Water Co. source, springs; system, gravity; reservoir cap 3,000,000 gals; hydrants 37; pipe 15 miles, 4 to 8 in dia; 40 valves; pressure 95 to 55 pounds; waterworks owned by company. Supt. I. A. Fisk.

Avon, Hartford Co., population 1,200; mer

cantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fire works ordinance; cause of fire investigated. No fire department.

WATER SUPPLY—Source, wells.

Baltic, New London Co., population 3,300; mercantile buildings, wood, 1 to 3 stories. Fire department—1 steam fire engine, 1 hose carriage; hose, rubber good 2,800 ft; value of fire department equipment \$4,200; total ann. expenses of department \$450; total membership 50, all volun-

teers; bell alarm. Chief engineer, Wm. D. Nolan. *
WATER SUPPLY—Source, reservoir 100x300 and 10 ft deep; 1-2 mile from village; system, gravity; hydrants 3; pipe 1 mile, 8 in dia; 4 valves; quality of water good; cost to construct \$1,500; ann expenses \$25; works owned by company. Pres and supt, Nathan R. Gardner; selectman, Thomas H. Allen.

Barkhamsted, Litchfield Co., population 1,100; mercantile buildings, 1½ and 2 stories; private, wood; wooden roofs are permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells and springs.

Bethel, Fairfield Co., population 3,401; fire area 5 miles; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 7 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 steam engine; hose, cotton good 400 ft, rubber good 400 ft; value of fire department equipment \$11,000; value of buildings occupied \$3,900; total ann expenses of department \$300; total membership 120, all volunteers. Chief engineer, Chas. H. Hart. *

WATER SUPPLY—Source, springs and surface water; system, gravity; hydrants 6; pipe 11.1-2 miles, 12 in dia; service pipe 1½ in dia; pressure 70 pounds; waterworks owned by Borough; original cost to construct \$25,000; expenses of construction to date \$38,000. Secty, A. W. Twiss.

Branford, New Haven Co., population 4,460; mercantile buildings, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—2 chemical engines on wheels; whistle and bell alarm. Town clerk, Walter Foote.

WATER SUPPLY—Wells and cisterns. Water Co. formed, may commence this year.

Bridgeport, Fairfield Co., population 48,866; fire area 10 acres; mercantile buildings, brick; stone and iron, 4 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—5 steam fire engines, 9 chemical extinguishers, 2 hook and ladder trucks, 8 hose carriages; new steamer and hook and ladder truck have been ordered; hose, cotton good 14,000 ft; 20 horses; value of fire department equipment \$162,500; value of buildings occupied \$75,100; total ann expenses of department \$60,000; total membership 79, paid full time 17, paid part time 62; Gamewell fire alarm; street boxes 93. Chief engineer, F. P. Beardslee.

WATER SUPPLY—Source, Oxand Island brook, Pequonnock and Mill river; system, gravity, pump to reservoir; cap 2,200,000 gals; pumping engines; dy cap. 14,000,000 gals; hydrants 250; pipe 75 miles, 4 to 30 in dia; pressure, domestic 25 to 50 pounds; works owned by company. Pres, Chas. Sherwood; supt, Geo. Richardson.

Bristol, Hartford Co., population 7,540; fire area 3,840 acres; mercantile buildings, brick and wood, 3 and 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 4,750 ft, inferior 200 ft, 5,300 ft not described; 2 horses; value of fire department equipment \$97,500; value of buildings occupied \$8,000; total ann expenses of department \$2,000; total membership 131, paid part time 3; whistles and bells alarm; 2 engine companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Howard Arms.

WATER SUPPLY—Source, Green Meadow brook, and Pollard river; system, gravity; 2 reservoirs, one of 55,000,000 gals, and another 98,000,000 gals; hydrants 62; pipe 18 miles, 12 to 1 in dia; 16 meters; pressure 60 to 130 pounds; cost to construct \$135,000. Supt, T. H. Kelms. *

Canaan, Litchfield Co., population 1,600; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hose carriage; hose, cotton good 500 ft; value of buildings occupied \$300; bell alarm.

WATER SUPPLY—Source, springs; system, gravity; 1 reservoir; pipe 5 miles, 6 to 1 in dia; hydrants 8; valves 6; quality of water pure; pressure, fire 95 pounds; works owned by company; cost to construct \$5,000; cost to date \$10,000. Supt, B. A. Bennett.

Chatham, Middlesex Co., population 1,967; mercantile buildings, wood, 2 stories; private

wood, 2 stories; wooden roofs are permitted. No fire department.

WATER SUPPLY—Source, wells and ponds.

Chester, Middlesex Co., population 1,300; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—Bucket brigade.

WATER SUPPLY—No waterworks.

Clinton, Middlesex Co., population 1,400; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—buckets and ladders.

WATER SUPPLY—Source, wells, cisterns and river.

Colchester Borough, New London Co., population 2,874; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage. Chief Geo. B. Avery

WATER SUPPLY—Source, 6 cisterns.

Collinsville, Hartford Co., population 2,376; fire area 2 square miles; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 4 hose carriages, 6 large rotary force pumps, 1 ladder truck, 4 ladders, 150 ft extension ladder; hose, rubber good 2,000 ft, cotton 400 ft; value of fire department \$3,000; value of buildings occupied \$500; total membership 26; bell alarm. Chief, Wm. Hill.

WATER SUPPLY—Source, springs, river, 2 cisterns; system, gravity; cisterns cap 6,000 gals each; 6 rotary force pumps, cap 300 gals each per min; hydrants 4, Chapman; waterworks owned by company. City civil engineer, Wm. Hill.

Danbury, Fairfield Co., population 20,000; fire area 10,000 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs not permitted inside fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, all kinds, 2 hose wagons, 2 jumpers; hose, cotton good 7,000 ft, inferior 1,300 ft; 7 horses, value \$2,200; value of fire department equipment \$157,500; value of buildings occupied \$28,000; total ann expenses of department \$24,000; total membership 215, paid full time 6, paid part time 34, volunteer members 175; Gamewell alarm; street boxes 29. Chief engineer, F. A. Lounsbury.

WATER SUPPLY—Source, surface water; system, gravity; 4 reservoirs, cap 800,000,000 gals; hydrants 339; pipe 60 miles, 8 to 16 in dia; 332 valves; pressure 70 to 80 pounds; works owned by city; cost to construct \$200,000; ann expenses \$25,000. Supt, Chas. B. Mason.

Danversville, Windham Co., population not given; fire area 800 acres; mercantile buildings, wood and brick, 2 and 2½ stories; private, 1½ to 2½ stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, rubber lined, cotton good 2,300 ft; value of fire department equipment \$6,000; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 60, paid by year; whistle alarm; 4 fire companies, 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, Chas. N. Capron.

WATER SUPPLY—Source, springs; system, gravity; 31 hydrants; pipe 11 miles, 12 to 4 in dia; 3 meters; pressure, domestic 57, fire 76 pounds. Pres of com, T. E. Hopkins; supt, Geo. C. Keach. *

Derby, New Haven Co., population 7,500; fire area 1,000 acres; mercantile buildings, wood and brick, 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—20 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,500 ft, inferior 800 ft, rubber inferior 250 ft; value of fire department equipment \$7,000; value of buildings occupied \$6,000; total annual expenses of department \$1,000; total membership 160, volunteers. Chief engineer, Bernard J. Mo-Manus.

WATER SUPPLY—Source, spring and surface water; system, gravity; hydrants 62; pipe 8 miles, 12 to 4; pressure 60 to 112 pounds; works owned by company; int. on bonds 5 per cent. Supt, and agt, Chas. H. Nettleton.

East Hartford, Hartford Co., population 5,500; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—3 hose carriages, all kinds; total no of fire companies 3. Chairman of fire and water com. E. O. Goodwin.*

WATER SUPPLY—Source, brook; system, gravity; reservoir cap 5,000,000 gals; hydrants 45; pipe 17 miles, 4 to 16 in dia; valves: pressure 80 pounds; waterworks owned by East Hartford Water Co.; original cost to construct \$150,000. Supt, A. P. Moore.*

East Haven, New Haven Co., population 1,100; mercantile buildings, wood, 2½ stories; private, wood, 2½ stories; wooden roofs are permitted. Fire department—1 hose carriage; hose, cotton good 750 ft. Chief engineer, Isaac Haggaman.

WATER SUPPLY—Source, Saltonstall lake; system, pump direct and to reservoir, cap 7,000,000 gals; pumping engines, dy cap 6,000,000 gals; quality of water good; pressure 30 to 35 lbs; waterworks owned by company. Supt, B. G. Nickerson.

Ellington, Tolland Co., population 1,539. Fire department not reported.

WATER SUPPLY—Source, spring; system, gravity; pipe iron and lead 1½ miles, 2 to 12 in dia. Tucker; taps 30; pressure 60 to 75 pounds; waterworks owned by F.M. Charter.

Essex, Middlesex Co., population 2,100; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 500 ft, inferior 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 50, volunteer; church bell alarm. Foreman, A. S. Comstock.

WATER SUPPLY—Source, wells, cisterns, ponds and Connecticut river.

Fair Haven, New Haven Co., population 2,000; fire area 1,500 acres; mercantile buildings, wood, 2 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, Baker fair 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total membership 65, all volunteer; bell alarm. Chief engineer, D. B. Connell.

WATER SUPPLY—Source, from New Haven Water Co.; hydrants 15.

Farmington, Hartford Co., population 3,275; fire area 75 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 850 ft; value of fire department equipment \$950; value of buildings occupied \$2,000; total annual expenses of department \$400; total membership 48, volunteers. Chief engineer, Wm. H. Brownson.

WATER SUPPLY—Source, springs and watershed; system, gravity; reservoir cap 38,000,000 gals; hydrants 5; pipe 36 miles; pressure, domestic 58, fire 58 pounds; waterworks owned by individual; cost to construct \$11,300. Prop and supt, A. R. Wadsworth.

Forestville, Hartford Co., population 1,500; mercantile buildings, wood, 2 stories; private, wood, 2½ stories; wooden roofs not permitted. Fire department—1 steam fire engine, 20 chemical extinguishers, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$5,000; ann expenses \$1,000; total membership 52, all volunteers; bell and whistle alarm. Chief, I. N. Beach.

WATER SUPPLY—Waterworks, private property, decline to report. A. Taplin, owner.

Glastonbury, Hartford Co., population 3,457; fire department not reported.

WATER SUPPLY—Source, Lilly pond; system, gravity; pipe 14 miles, 6 to 14 in dia; pressure, fire 100 pounds; waterworks owned by company, Supt, A. P. Moore.*

Granby, Hartford Co., population 1,200; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fire-

works ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, Blissell brook; system, pumping to tank; reservoir cap 80 bbls; pumping engines, cap 80 gals per min; pipe 1½ miles laid, 3 in dia; waterworks owned by company; cost to construct \$4,000; annual expenses \$100. Supt, D. P. Cooley.

Greenwich, Fairfield Co., population 10,131; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 and 3 stories. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 force pump on truck; 2 horses; value of buildings occupied \$7,000; hose, rubber new 1,500, cotton fair 650 ft; total membership 87, all volunteers; bell alarm. Chief engineer, A. M. Gale.

WATER SUPPLY—Source, Putnam lake; system, gravity; tank cap 1,250,000 gals, dy cap 1,300,000 gals; hydrants 40; pipe 26 miles; 6 meters; pressure 50 pounds. Supt, John Dayton.*

Guilford, New Haven Co., population 2,780; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—2 hand engines, 1 hook and ladder truck; hose, cotton good 200 ft, linen good 50 ft, inferior 50 ft, leather 100; volunteer members 73. Chief engineer, Geo. B. Norron.

WATER SUPPLY—Source, private wells and cisterns.*

Hartford, Hartford Co., population 58,000; fire area 11,520 acres; mercantile buildings, brick, 3 to 6 stories; private, brick, 3 and 4 stories; wooden roofs are permitted; fireworks ordinance. Fire department—8 steam fire engines, 13 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 8 hose carriages, all kinds, 4 supply wagons; hose, rubber good 400 ft, cotton good 13,000 ft, fair 7,000 ft; 27 horses; value of fire department equipment \$67,000; value of buildings occupied \$111,500; total ann expenses of department \$65,000; total membership 115, paid full time 31, paid part time 84; Gamewell alarm; street boxes 70. Chief engineer, Henry J. Eaton.

WATER SUPPLY—Source, rain and mountain springs; system, gravity; reservoir cap 1,300,000,000 gals; hydrants 58; pipe 80 miles, 4 to 20 in dia; valves 872; pressure 60 pounds; waterworks owned by city; expenses of construction to date \$2,282,873; ann expenses \$21,970. Supt, Ezra Clarke.

Hebron, Tolland Co., population 1,039; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; cause of fire investigated. No fire department.

WATER SUPPLY—No waterworks.

Huntington, Fairfield Co., population 3,000; mercantile buildings, brick and wood, 3 and 4 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,350 ft; Gamewell telegraph alarm; street boxes 4; total no of fire companies 1, 1 hook and ladder company. Chief engineer, Wm. Mahnea.*

WATER SUPPLY—No waterworks, except at Sheldon which is in the town.

Kent, Litchfield Co., population 300; fire area ¼ M wide x ¼ M long; mercantile buildings, wood, 3 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance. No fire department; hose, cotton good 500 ft.

WATER SUPPLY—Source, springs and brook; system, gravity; reservoir cap 4,000,000 gals; hydrants 10; pipe 2½ miles, 6 to 12 in dia; pressure, domestic 65, fire 65 pounds; waterworks owned by company; original cost to construct \$15,000; ann expenses \$30. Supt, C. A. Eaton.

Litchfield, Litchfield Co., population 3,400; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are not permitted; no fireworks ordinance; causes of fire investigated. Fire department—250 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 2 hose wagons; hose, rubber good 1,500 ft, inferior 1,500 ft; value of fire department equipment \$2,000; value of buildings occupied \$72,000; total ann expenses of department \$1,400; total membership 69, volunteers; bell alarm. Chief engineer, E. L. Phelps.

WATER SUPPLY—Source, springs, 5 miles north;

system, gravity; reservoir cap 25,000,000 gals; standpipe 30x35 ft; 40 hydrants; pipe 8½ miles, 4 to 8 in dia; pressure, fire 88 pounds; waterworks owned by company; original cost to construct \$65,000; ann expenses \$400. Supt. E. B. Allen.

Manchester, Hartford Co., population 4,000; fire area 1 mile square; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hose carriages; 800 ft linen hose; value of equipments \$500; volunteers; 8 alarm boxes.

WATER SUPPLY—Source, stream and springs; system, gravity; 3 reservoirs; 48 hydrants, Ludlow Valve Co.; pipe 7½ miles, 12 to 4 in dia, Conn. Pipe Mfg. Co.; 4 meters, National quality of water good; pressure 70 pounds; works owned by private company; cost to construct \$45,000. Supt. Wm. H. Childs.

Meriden, New Haven Co., population 25,000; fire area 112 acres; mercantile buildings, brick, 4 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, and 1 in reserve, 2 hose carriages, other apparatus, 1 bumper, and 1 in reserve; hose, cotton good 4,700 ft, inferior 750 ft; 7 horses, value \$2,100; value of fire department equipment \$27,575; value of buildings occupied \$38,500; total ann expenses of department \$24,679.68; total membership 99, paid full time 5, paid part time 74; volunteer members 20; Gamewell electric alarm; street boxes 30; total no. of fire companies 6, no. of engine companies 1, 1 hook and ladder company, 4 hose companies. Chief engineer John Tracy.*

WATER SUPPLY—Source, surface water and springs; system, gravity and pumping to reservoir; 2 reservoirs, cap 550,000,000 gals; pumping engines, 4½ cap 5,300,000 gals; 265 hydrants; pipe 40 miles, 4 to 20 in dia; 20 valves; pressure, domestic 15 to 115, fire 115 pounds; waterworks owned by city; original cost to construct \$388,000; expenses of construction to date \$400,000; ann expenses \$10,000; int paid on bonds \$10,000. Supt. Geo. H. Mider.*

Middletown, Middlesex Co., population 9,013. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 5,000 ft, 3½ in poor, linen poor 200 ft; total membership 125, all volunteers; Gamewell telegraph alarm; 16 street boxes. Chief engineer, F. W. Wiley.*

WATER SUPPLY—Source, surface water, 3 miles S. W. from city; system, gravity; reservoir cap 222,000,000 gals; 130 hydrants; pipe cement and iron 1½ miles, 3 to 12 in dia; 26 valves; pressure 10 to 80 pounds; waterworks owned by city; original cost to construct \$177,000; expenses of construction to date \$29,636; ann expenses \$5,917. Supt. and secy, John C. Brounch.

Milford, New Haven Co., population 3,811; fire area 2 acres; mercantile buildings, 2 stories; private, wood, 2 stories. Fire department—1 hand engine, 3 hose carriages; hose, cotton good 800 ft, 200 ft poor; value of fire department equipment \$3,000; value of buildings occupied \$2,200; total ann expenses of department \$257; total membership 72, volunteers; bell alarm. Chief, Frank L. Burns.

WATER SUPPLY—Source, wells.*

Montville, New London Co., population 2,344; no fire department; buckets and hand fire extinguishers; hose, cotton good 800 ft, rubber good 150 ft; steam whistle and bell alarm.*

WATER SUPPLY—Source, wells and private cisterns. Town clerk, Carl Mathewson.*

Myrtle Fire District, New London Co., population 4,000; fire area 1 square mile; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,700 ft, inferior 300 ft, cotton good 300 ft, inferior 200 ft; value of fire department equipment \$6,500; total ann expenses of department \$2,350; total membership 80, volunteers; bell alarm; total no. of fire companies 2, no. of engine companies 1, 1 hook and ladder company. Chief engineer, John H. Hoxie; chairman of fire and water com, Allen Avery.

WATER SUPPLY—Source, brook at Stonington;

system, pumping to reservoir, cap 2,100,000 gals; 2 steam pumps, 4½ cap 2,000,000 gals; 116 hydrants; pipe 14 miles, 4 to 12 in dia; 141 gates; pressure 75 pounds; int on bonds 5 per cent; works owned by company, cost to construct \$240,000; cost to Jan. 1, 1894 \$23,083; ann expenses \$7,883. Supt. A. G. Watrous.*

Naugatuck, New Haven Co., population 7,000; fire area 1,000 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 4 hose carriages, 2 chemical extinguishers; hose, cotton good 1,500 ft, rubber good 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$6,000, ann expenses for past year \$500; total membership 100, volunteers; whistle alarm. Chief engineer, J. B. Fuller.

WATER SUPPLY—Source, Stratfield brook; system, gravity; reservoir cap 35,000,000 gals; 71 hydrants; pipe 14 miles, 4 to 10 in dia; 1 service pipe, iron; pressure, domestic 110 pounds; waterworks owned by company; original cost to construct \$80,000; expenses of construction to date \$10,000; ann expenses \$1,500. Supt. E. C. Barnum.

New Britain, Hartford Co., population 20,000; mercantile buildings, brick and wood, 1 to 6 stories; private, wood, 1 to 6 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—3 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; 7,500 ft good cotton hose; 8 horses, owned by city, hire 7, value \$2,400; total ann expenses of department \$20,000; total membership 75, paid full time 3, Gamewell alarm, 33 street boxes. Chief engineer, John W. Carleton.

WATER SUPPLY—Source, Shuttle Meadow lake, 2 miles west of city; system, gravity; reservoir cap 1,300,000,000 gals; 251 hydrants; pipe 48 miles, 4 to 24 in dia; valves, domestic 60, fire 85 pounds; waterworks owned by city; original cost to construct \$500,000; ann expenses \$18,000. Supt. D. A. Harris.

New Canaan, Fairfield Co., population 3,000; fire area 150 acres; mercantile buildings, wood and brick, 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,800; total ann expenses of department \$250; total membership 56, all volunteers. Chief engineer, Geo. E. Seelye, Jr.

WATER SUPPLY—Source, wells and cisterns, Five Mile river; system, gravity.

New Haven, New Haven Co., population 90,000; fire area 7,950 acres; mercantile buildings, brick, 4 stories; private, wood, 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—7 steam fire engines, and one in reserve, 20 chemical extinguishers, 3 hook and ladder trucks, and 1 in reserve, 1 aerial truck, 1 hose carriage, 8 hose wagons; other apparatus, 3 supply wagons; hose, cotton good 29,700 ft, inferior 1,500 ft; 40 horses, value \$12,000; value of fire department equipment \$319,600, including buildings; total ann expenses of department \$122,326; total membership 93, paid full time 22 substitutes; Gamewell alarm; street boxes 126; total no. of fire companies 11, no. of engine companies 7, 3 hook and ladder companies, 1 hose company. Chief engineer, Andrew J. Kennedy. (Will add steamer & chemical this year)

WATER SUPPLY—Source, Lake Whitney, Lake Saltonstall, Lake Dawson, Lake Wintergreen and Malloy Lake; system, gravity; pumping to reservoirs, cap 10,000,000 and 7,000,000 gals each; 4½ cap 15,000,000, gravity 13,000,000 gals. Worthington, Farrell and Yale Iron Works; 798 hydrants; pipe 14½ miles, 4 to 27 in dia; pressure 25 to 80 pounds; works owned by company. Supt. R. N. Nickerson.

Newington, Hartford Co., population 1,000; buildings wood and brick, 1 and 2 stories; fire works ordinance; wooden roofs permitted.

WATER SUPPLY—Source, Cedar mountain; system, gravity; standpipe cap 8,000 gals; pipe 3 miles, 3 in dia. Pittsburg; taps 100; service pipe galv iron; filtration, mountain gravel; waterworks owned by company; expenses of construction to date \$5,000; ann expenses \$100. City civil engineer, C. D. Day.

New London, New London Co., population

15,000; fire area 2,000 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,500 ft. inferior 2,000 ft; value of fire department equipment \$18,000; value of buildings occupied \$25,000; total ann expenses of department \$5,950; total membership 275, paid part time 8, volunteer members 267; Gamewell alarm; 20 street boxes. Chief engineer, Chas. L. Ockford.

WATER SUPPLY—Source, Lake Konomoc, 6 miles from city; system, gravity and pumping to stand-pipe; reservoir cap 600,000,000 gals; standpipe cap 90,000 gals; 176 hydrants; pipe 40-2-10 miles, 4 to 20 in dia; service pipe lead; pressure 45 to 65 pounds; waterworks owned by city; original cost to construct \$250,000; expenses of construction to date: \$530,134; ann expenses \$30,085.40. Supt, L. E. Daboll.

New Milford, Litchfield Co., population 4,000; fire area 320 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 300 ft, cotton good 1,050 ft. linen good 750 ft; value of fire department equipment \$7,740; value of buildings occupied \$7,500; total ann expenses of department \$200; total membership 59, volunteers; 1 fire company, 1 engine company. Chief engineer, D. E. Soule.

WATER SUPPLY—Source, mountain stream, one fourth mile from town; system, gravity; 2 reservoirs, cap 13,000,000; 36 hydrants; pipe 6 miles, 6 to 1 in dia; service pipe galv iron; pressure 130 pounds; waterworks owned by company; original cost to construct \$27,451.03; expenses of construction to date \$49,000; ann expenses \$1,250. Supt, H. O. Warner.

Newton, Fairfield Co., population 3,539; fire area 3 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck; total membership 38, volunteers; bell alarm. Foreman, J. H. Blackmer.

WATER SUPPLY—Source wells and springs. #

Norwalk, Fairfield Co., population 8,900; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, rubber good 2,000 ft, inferior 500 ft, cotton good 400 ft; total ann expenses of department \$2,000; value of fire department equipment \$9,000; total membership 100, paid part time 2, volunteers 98; Gamewell alarm; 15 street boxes, 1 engine company, hook and ladder company, 1 hose company. Chief engineer, J. T. Provitt.

WATER SUPPLY—Source, Silver Mine stream; system, gravity; pump to reservoir, cap 150,000,000 gals; 110 hydrants, R. D. Wood & Co.; pipe 25 miles, 4 to 12 in dia, various 60 valves, Ludlow; quality of water good; pressure, domestic 75; cost to construct \$230,000; ann expenses \$2,500. Supt, James A. Roach.

Norwich, New London Co., population 24,000; fire area 6 1/2 miles; mercantile buildings, brick and stone, 3 to 5 stories; private, wood and brick, 2 to 2 1/2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—3 steam fire engines, 4 hand chemical engines, 4 chemical extinguishers, 2 hook and ladder trucks, 7 hose carriages, all kinds, 1 hose wagon, other apparatus, 4 jumpers, nozzles and holders; hose, rubber good 100 ft, cotton good 7,000 ft; 11 horses, value \$2,000; value of fire department equipment \$7,000; value of buildings occupied \$40,000; total ann expenses of department \$10,250; total membership 320, paid full time 1, paid part time 320; Gamewell electric alarm; street boxes 31. Chief engineer, L. W. Greenburg.

WATER SUPPLY—Source, brooks, springs and rainfall pond; system, gravity; reservoir cap 333,500,000 gals; 239 hydrants; pipe 39 miles, 1 1/4 to 24 in dia, service pipe lead and iron; pressure 10 to 100 pounds; works owned by city; cost to

construct \$267,000; cost to date \$530,127; ann expenses \$20,000; int on bonds \$16,500. Supt, R. S. Bartlett.

Paganoek, Hartford Co., population not given; buildings, principally wood, 1 and 2 stories; no fireworks ordinance; wooden roofs are permitted. Fire department—1 hand engine; have an organized fire company. The mills being well equipped are able to protect the buildings surrounding them to the distance of 300 to 400 feet. #

WATER SUPPLY—Wells, spring and pond. Town clerk, Isaac W. Halkes. #

Plainville, Hartford Co., population 1,993; mercantile buildings, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—2 chemical extinguishers, 2 hose carriages; hose, rubber good 1,000 ft, linen good 1,000 ft; value of fire department equipment \$2,000; total membership 30, paid part time 1, remainder volunteers; bell alarm. J. H. Edmund.

WATER SUPPLY—Source, spring; system, gravity; reservoir cap 165,000,000 gals; hydrants 28; pipe 8 miles, 4 to 8 in dia; pressure 105 pounds; waterworks owned by company; original cost to construct \$30,000; expenses of construction to date \$32,000; ann expenses \$350. Supt, H. W. Higgins.

Portland, Middlesex Co., population 4,687; mercantile buildings, wood and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine not in use, waterworks pressure being sufficient; 4 hose carriages; hose, cotton good 2,250 ft, poor 500 ft, value \$1,250; value of fire department equipment \$4,000; value of buildings occupied \$2,500; ann expenses about \$400; total membership 90, all volunteers; bell alarm; 2 fire companies. Chief engineer, R. H. Pascall.

WATER SUPPLY—Source, stream, spring foot of Mesawmesic mountain; system, gravity; reservoir cap 6,000,000 gals; 75 hydrants; pipe 16 miles, 4 to 10 in dia; pressure, domestic 90, fire 100 pounds; waterworks owned by company. Supt, J. Allen Butler.

Putnam, Windham Co., population 6,512; fire area 3,500 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories. Fire department—1 chemical extinguisher, 1 hook and ladder truck, 1 Bangor extension ladder, 3 hose carriages; hose, rubber good 300 ft, inferior 200 ft, cotton good 2,700 ft, inferior 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$6,000; total ann expenses of department \$2,500; total membership 79, paid full time 1; bell alarm. Chief engineer, H. L. Burr.

WATER SUPPLY—Source, Little river; system, pumping to standpipe, cap 237,000 gals; Worthington pumping engines, 4; cap 7,800,000 gals; 67 hydrants; pipe 16 miles, 4 to 10 in dia; pressure 75 pounds; cost to construct \$100,000; cost to date \$165,000. Supt, C. D. Sharpe.

Ridgefield, Fairfield Co.

WATER SUPPLY—Charter has been secured for waterworks.

Rockville, Tolland Co., population 9,000; fire area 10,700 acres; mercantile buildings, brick and wood, 2 to 5 stories; private, wood, 1 1/4 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 32,035 ft; value of fire department equipment \$16,000; value of buildings \$2,600; total ann expenses of department \$1,603; total membership 43, paid part time: new Gaynor alarm; 15 street boxes, 2 private. Chief, John Wagner.

WATER SUPPLY—Source, Snibish lake; system, gravity and high service pumping; about 150 hydrants; pipe 9 miles, 6 to 20 in dia; expenses of construction to date \$165,000. Supt, Chas. W. Wood. The entire system is being re-established.

Salisbury, Litchfield Co., population 3,470; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—No waterworks.

Seymour, New Haven Co., population 3,300; mercantile buildings, wood, brick and stone; private, wood. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carts; hose, cotton good 1,800 ft; value of fire department

equipment \$10,000; value of buildings occupied \$15,000; total membership 80, volunteers. Chief engineer, James Swan.

WATER SUPPLY—Source, rivers and reservoirs; fire engine draws water from river.

Sharon, Litchfield Co., population 3,000; mercantile buildings, wood, 1 to 3 stories; private, wood, brick and stone, 1 to 3 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hose carriage, 1 hose wagon; hose, linen good 600 ft; value of fire department equipment \$400; total membership 30, volunteers; bell alarm. Chief engineer, Willard Baker.

WATER SUPPLY—Source, brook 1 mile from village; system, gravity; reservoir cap 300,000 gals; 14 hydrants; pipe 2 miles, 4 to 6 in dia; 7 valves, 1 galv iron; pressure, domestic 6 to 11½, fire 90 pounds; waterworks owned by Sharon Water Co.; original cost to construct \$15,000; expenses of construction to date \$16,000; ann expenses \$150; int on bonds 6 per cent. Supt, I. N. Bartram.*

Shelton, Fairfield Co., population 2,500; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of buildings occupied \$9,000; value of fire department equipment \$2,000; total membership 60, all volunteers; Gamewell alarm. Chief engineer, Horace Wheeler.*

WATER SUPPLY—Source, brook and springs; system, gravity; 40 hydrants; pipe 5 miles, 12 to 4 in dia; works owned by company; cost to construct \$45,000. Supt, D. S. Brismade.

Simsbury, Hartford Co., population 1,874; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; no fireworks ordinance.*

WATER SUPPLY—Source, streams; system, gravity from reservoir; pipe 2 miles; 10 hydrants; cost to construct \$30,000. W. H. Whitehead.*

Southington, Hartford Co., population 5,501; fire area 11,000 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—5 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, all kinds; other apparatus, 2 hose sleighs for winter use; hose, cotton good 2,500 ft; value of fire department equipment \$4,625; value of buildings occupied \$5,800; total ann expenses of department \$2,121; total membership 103, paid part time 6, volunteers 97; bells and whistles fire alarm; 2 hook and ladder companies, 2 hose companies. Chief engineer, James H. Osborne.

WATER SUPPLY—Source, Homiston brook; system, gravity from impounding and distributing reservoirs; storage reservoir cap 60,000,000 gals; distributing reservoir cap 3,000,000 gals; 75 hydrants; pipe 14 miles, 10 to 4 in dia; pressure 95 pounds; waterworks owned by company; cost to construct \$94,431.55. Supt, T. H. McKenzie.

South Manchester, Hartford Co., population 5,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hose carriages, all kinds; 2,000 ft cotton hose good; hose owned by private company.*

WATER SUPPLY—Source, brooks; system, gravity; reservoir cap 11,000,000 gals; 200 hydrants, Ludlow; pipe, Warren Foundry Co and McNeill Pipe Co; 150 valves, Ludlow; 400 taps; service pipe tin lined lead; pressure, domestic 60 to 100, fire 90 to 100 pounds; waterworks owned by company. Town clerk, Daniel Wadsworth.*

South Norwalk, Fairfield Co., population 6,000; fire area 2 sq miles; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 2 hose wagons; hose, cotton good 3,000 ft; value of fire department equipment \$7,000; total ann expenses of department \$2,188.71; total membership 150, all volunteers; Gamewell electric alarm; 14 street boxes. Chief, Edward V. Baker.

WATER SUPPLY—Source, lakes and springs; system, gravity; reservoir cap 700,000,000 gals; 100 hydrants; pipe 18 miles, 4 to 12 in dia; pressure 95 pounds, Edison pressure recording gauge; cost to construct to date \$280,000; ann expenses \$2,000. Supt, J. M. Layton.

Southport, Fairfield Co. See Fairfield.

Stafford Springs, Toland Co., population

2,353; fire area 4 miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 1-2 stories; wooden roofs not permitted within fire limit. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 1,900 ft, 600 ft poor; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$400; total membership 20; bell alarm. Chief engineer, Anthony Adams.

WATER SUPPLY—Source, Roaring brook; system, gravity; cap of reservoir 35,000,000 gals, 30 hydrants, Holyoke; pipe 10 miles, 10 to 4 in dia, R. D. Wood & Co.; quality of water good; pressure, domestic 120 pounds, fire same; works owned by company; ann expenses \$500; int paid on bonds \$1,750. Pres, Alfred N. Birnie; supt, Anthony Adams; mayor, Amos Nichols; city clerk, J. H. Reed.

Stamford, Fairfield Co., population 9,000; fire area 18,000 acres; mercantile buildings, brick, 3 and 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted in certain parts of town; fireworks ordinance; fires investigated. Fire department—2 steam fire engines, 1 aerial truck, 2 chemical extinguishers, 1 hose carriage, 1 hand jumper; hose, cotton good 3,000 ft, rubber good 100 ft; 5 horses, value \$1,500; value of fire department equipment \$40,000; total membership 43, paid full time 3, paid part time 40; 1 hook and ladder company, 2 engine and hose companies; Gamewell alarm. Chief engineer, Geo. Bowman.

WATER SUPPLY—Source, river and Trinity lake; system, gravity; Trinity lake cap 300,000,000 gals; Cox's pond cap 20,000,000 gals; Simsbury reservoir 6,000,000 gals; Knowles pumping engines; 93 hydrants, Matthews; pipe 44 miles, 4 to 16 in dia, R. D. Wood & Co; Ludlow valves; 20 meters, Thompson, Worthington, Union and National; pressure 55 to 60 pounds; works owned by company; cost to construct \$370,000; ann expenses \$12,000; int on bonds \$3,500 per annum. Supt, Geo. E. Whitney.*

Stonington, New London Co., population 7,184; fire area 300 acres; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, wood, 2 stories; tin, slate and shingle roofs principally; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,800 ft, inferior 200 ft, leather good 300 ft; value of fire department equipment \$10,000; value of buildings occupied \$3,000; total ann expenses \$330; total membership 115, all volunteers; church bell alarm. Chief engineer, E. S. Chesebro.*

WATER SUPPLY—Source, Mistuxet brook; system, pumping to reservoir; steam pumping engines, dy cap 2,000,000 gals; 102 hydrants; pipe 10 in dia; pressure 70 pounds. Supt, A. G. Watrous.

Strafford, Fairfield Co., population 2,008; mercantile buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—2 hook and ladder trucks, Babcock extinguishers and 300 ft hose on truck; total membership 50, volunteers; bell alarm. Chief, David L. Rhoades.

WATER SUPPLY—Source, wells. Town clerk, H. R. Stagg.*

Terryville, Litchfield Co., population not given; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated; no organized fire department; hose 300 ft.

WATER SUPPLY—Source, springs and watershed; system, gravity; reservoir cap 900,000 gals; 7 hydrants, Ludlow; pipe 3 1-2 miles, 4 in dia, Phipps; 16 valves, Ludlow; 3 meters, Hersey; 1-2 in iron service pipe; 25 taps; quality of water good; pressure 80 pounds; works owned by company; cost to construct \$14,000. Supt, W. P. Swett.*

Thomaston, Litchfield Co., population 3,278, fire area 640 acres; mercantile buildings, brick and wood, 4 stories; private, wood, 2 1-2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages (2 private); hose, cotton good 1,900 ft, inferior 100 ft, private good 3,000; value of fire department equipment \$3,500; value of buildings occupied \$13,000; total ann expenses of department \$500; total membership 100, volunteers; whistle alarm; 1 hook and ladder company, 1 hose company. Chief engineer, Thomas D. Bradstreet.

WATER SUPPLY—Source, reservoir located in Plymouth; system, gravity; reservoir cap 65,000,000 gals; 40 hydrants; pipe 10 miles, 4 to 12 in dia

pressure, fire 125 pounds; waterworks owned by company; original cost to construct \$42,000; expenses of construction to date \$45,000; ann expenses \$900. Supt, James, W. White.

Thompsonville, Hartford Co., population 4500. Fire department—1 steam fire engine, 1 hand engine, 8 hose carriages; hose, linen and leather good 1500 ft; total membership 100, all volunteers. James Morrison.

WATER SUPPLY—Source, springs; system, pumping to standpipe; standpipe cap 370,000 gals; pumping engines, dy cap 1,000,000 gals; Deane; 55 hydrants; pipe 20 miles, 2 to 12 in dia; service pipe galv iron; pressure 60 pounds; waterworks owned by company; original cost to construct \$92,000. Supt, H. R. Coopes.

Torrington, Litchfield Co., population 7500; mercantile buildings, brick and wood, 1 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good, rubber lined, 3500 ft; value of fire department equipment \$10,000; total ann expenses of department \$1,250; Gamewell alarm; 19 boxes; total membership 57, volunteers; bell and whistle alarm. Chief engineer, Wm. H. Dayton.

WATER SUPPLY—Source, surface water; system gravity; 3 reservoirs, cap 200,000,000 gals; 43 hydrants, pipe 16 miles, 4 to 10 in dia; pressure 60 pounds; waterworks owned by company; original cost to construct \$30,000; cost to date \$100,000. Supt, O. R. Tyler.

Wallington, New Haven Co., population 6500; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, 2500 ft good cotton, rubber lined; value of fire department equipment \$7500; total membership 80, all volunteers; bell and whistle fire alarm system. Chief engineer, Geo. A. Smith.*

WATER SUPPLY—Source, Lake Pistapague and Meadow river; system, gravity and pumping to main; reservoir cap 300,000,000 gals; pumping engines, dy cap 1,500,000 gals; 78 hydrants; pipe 4 miles, 12 and 8 in dia; service pipe, galv iron; pressure 100 to 150 pounds; waterworks owned by city; original cost to construct \$170,000, expenses of construction to date \$180,000; ann expenses \$3,625. Supt, Henry L. Hall.

Waterbury, New Haven Co., population 35,000; fire area 80 acres; mercantile buildings, brick, 3 to 7 stories; private, wood, 2 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, all kinds, 2 hook wagons; hose, cotton good 9000 ft, inferior 500 ft, rubber poor 500 ft; 10 horses, value \$275; value of fire department equipment \$38,091; value of buildings occupied \$80,744; expense for past year \$15,955; total membership 271, paid full time 8, part time 7, volunteer members or call men, 255; Gamewell electric alarm; street boxes 46; 7 fire companies, 2 engines companies, 1 hook and ladder company, 4 hose companies. Chief engineer, Samuel C. Snags.

WATER SUPPLY—Source, springs and brook; system, gravity and pumping direct; reservoir cap 185,000,000 gals; pumping engines, dy cap 2,000,000 gals; 264 hydrants; pipe 45 miles, 4 to 18 in dia; 366 valves, pressure, 110 pounds; waterworks owned by city; original cost to construct \$190,000; expenses of construction to date \$553,000; ann expenses \$12,000. Supt, N. J. Welton.

Waterford, New London Co., fire department not reported.

WATER SUPPLY—Source, wells.

West Hartford, Hartford Co., population 1,930. Fire department—1 hose carriage; hose, leather good 400 ft. Chief engineer, W. S. Palmer.

WATER SUPPLY—Source, elevated tanks; system, gravity; 3 hydrants; pipe 24 in dia. Town clerk, L. Buckland.

West Haven, New Haven Co., population 3,200; mercantile buildings, wood and brick, 2½ stories; private, wood, 2½ stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 2 hook and ladder

trucks, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; 2 horses, value \$500; value of fire department equipment \$2,580; value of buildings occupied \$2,500; total ann expenses of department \$2,000; total membership 120, volunteer; electric alarm; street boxes 7; 4 fire companies, 1 engine company, 2 hook and ladder companies, 1 hose company. Chief engineer, Wm. V. Wilson.*

WATER SUPPLY—Source, Coveriver, in town or Orange; system, gravity and pumping to reservoir; reservoir cap 750,000 gals; pumping engines, dy cap 500,000 gals; 30 hydrants; pipe 16 miles, 4 to 12 in dia, Conn Pipe Co; 120 valves; pressure 40 pounds; waterworks owned by company; original cost to construct \$90,000. Supt, Chas. A. Thompson.

Westport, Fairfield Co., population 4,500; fire area 1½ miles square; mercantile buildings wood, 3 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 3,000 ft; value of equipment \$4,000; value of buildings occupied \$1,300; ann expenses of department \$800; total membership 130, all volunteers. Chief engineer, John S. Jones.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 269,800 gals; pumping engines, dy cap 1,050,000 gals, Blake; 50 hydrants, Holyoke; pipe 9½ miles, 4 to 10 in dia, R. D. Wood & Co; 30 valves, Ludlow; 15 meters; Nast and National; pressure 75 pounds; waterworks owned by company; original cost to construct \$100,000; ann expenses \$2,500; int paid on bonds \$3,000.

West Stratford, Fairfield Co., buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck; value of fire department equipment \$1,000; total ann expenses of department \$150; total membership 35, all volunteers; bell alarm.*

WATER SUPPLY—Source, wells, cisterns and river.*

Westville, New Haven Co., population 1,900; fire area 3 sq miles; mercantile buildings, wood, 2 stories; private, wood, 3 stories; no fireworks ordinance. Fire department—1 hose carriage, 1 hook and ladder truck, 2 chemical extinguishers; hose, cotton good 1,100 ft, linen good 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total ann expenses of department \$200; total membership 30, all volunteers; bell alarm. Chief engineer, Murdock Dingwall.

WATER SUPPLY—Source, wells and cisterns.

Wethersfield, Hartford Co., population 2,271; buildings, wood and brick, 2½ stories; no fireworks ordinance; shingle roofs principally. Fire department—1 hook and ladder truck; value of fire department equipment \$600; value of buildings occupied \$250; total membership 35, all volunteers; bell alarm. Captain, Robert L. Fulton.*

WATER SUPPLY—Source, wells and cisterns; town of Hartford extend pipe line to center of town. Town clerk, Albert Galpin.*

Willimantic, Windham Co., population 9,000; fire area 300 acres; buildings, brick and wood, 2, 3 and 4 stories; fireworks ordinance; wooden roofs not permitted in fire limits; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton, rubber lined, good 3,200 ft; value of fire department equipment \$4,000; ann expenses \$3,200; total membership 110, all volunteers; Gamewell alarm; street boxes 16. Chief engineer, Chas. E. Leonard.*

WATER SUPPLY—Source, Natchaug river; system, pumping to reservoir; pumping engines, dy cap 3,000,000 gals; 172 hydrants; pipe 17 miles, 6 to 14 in dia; pressure 70 to 130 pounds; cost to construct \$200,000; cost to date \$355,484; ann expenses \$2,300; int on bonds \$8,000. Supt, H. S. Moulton.

Windser, Hartford Co., population 2,954; mercantile buildings, brick and wood, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 4 chemical extinguishers, 2 hose carriages, all kinds; hose, rubber good 5,000 ft, cotton good 1,300 ft, inferior 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; volunteer members 72; whistle alarm. Chief engineer, J. E. Higginbotham.*

WATER SUPPLY—Source, springs; system, gravity; storage wells, cap 25,000 gals; hydrants 10; pipe 2 1/2 miles, 4 to 8 in dia; pressure, domestic 60, fire 40 pounds; works owned by company; cost to construct \$10,000; cost to date \$25,000. Supt. N. W. Haydan.

Windsor Locks, Hartford Co., population 2,758; fire area 1 1/2 by 1 sq mile; mercantile buildings, brick and wood, 1 to 5 stories; private, brick and wood, 1 to 4 stories; wooden roofs permitted. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; total membership 33, volunteer. Chief engineer, John L. Egan.

WATER SUPPLY—Source, English brook, 2 miles distant; system, pump to standpipe; cap 235,000 gals. Worthington pumping engines; pipe 7 miles 4 to 10 in dia; 38 hydrants; cost to construct \$50,000. Supt. J. E. Egan.

Winstead, Litchfield Co., population 6,189; fire area 1,200 acres; mercantile buildings, 3 stories; private, wood, 3 stories; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds; other apparatus, 3 jumpers; hose, interior rubber 100 ft, cotton inferior 800 ft, linen good

3,600 poor 200 ft; value of fire department equipment \$12,000; value of buildings occupied \$4,500; total annual expenses of department \$1,925; total membership 185, paid full time 1, volunteer members 164; electric alarm; 5 fire companies, 1 hook and ladder company, 4 hose companies. Chief engineer, Thos. F. Burns.

WATER SUPPLY—Source, lake; system, gravity; 110 hydrants; pipe 11 miles, 4 to 12 in dia; pressure domestic 50 pounds, fire same; waterworks owned by city; cost to construct \$120,000; ann expenses \$2,000. Water commissioner, T. C. Richards.

Places having a population of 1,000 or more that have no fire protection: Avon, Hartford Co., population 1,200; Barkhamsted, Litchfield Co., population 1,130; Brooklyn, Windham Co., population 2,628; Colebrook, Litchfield Co., population 1,698; Cromwell, Litchfield Co., population 1,283; Cromwell, Middlesex Co., population 1,800; Deep River, Middlesex Co., population not given; Lebanon, New London Co., population 1670; Mansfield, Tolland Co., population 2,000; Plainfield, Windham Co., population 4,552; Plymouth, Litchfield Co., population 1,600; Salisbury, Litchfield Co., population 3,420; Watford, New London Co., population 2,661; Watertown, Litchfield Co., population 2,323.

DELAWARE.

Camden, Kent Co., population 553; fire area 500 acres; buildings, brick and wood, 2 and 3 stories; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$750; value of buildings occupied \$200; total membership 32, volunteers. Chief engineer, Wm. Ellison.

WATER SUPPLY—Source, wells. Town clerk, W. B. Nock.

Delaware City, New Castle Co., population 1,100; fire area 30 to 40 acres; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, brick, stone and wood, 2 and 3 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,500 ft; value of fire department equipment \$2,500; value of buildings occupied \$800; total ann expenses of department \$200; total membership 65, volunteers; 1 fire company. Chief engineer, Geo. N. Bright.

WATER SUPPLY—Source, canal; quality of water good.

Dover, Kent Co., population 3,061; fire area 1 square mile; mercantile buildings, brick, 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,300; total ann expenses of department \$350; total membership 49, volunteers; Gamewell alarm; street boxes 1. Chief engineer, James B. Bice.

WATER SUPPLY—Source, 2 surface and 2 artesian wells, St. Johns river; system, pumping direct; pumping engines, dy cap 1,000,000 gals; 32 hydrants; pipe 5 miles, 2 to 12 in dia; 19 valves; pressure, domestic 45, fire 75 pounds; waterworks owned by city; original cost to construct \$20,000; expenses of construction to date \$29,000; ann expenses \$2,800; int on bonds 4 per cent. Engineer, T. F. Cook.

Frederica, Kent Co., population 621; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, other apparatus, 3 hand extinguishers; hose, rubber good 100 ft. A. W. Carrow.

WATER SUPPLY—Source, wells and cisterns.

Georgetown, Sussex Co., population 1,200; buildings, wood, 2 stories; fireworks ordinance. Fire department—1 hand engine; hose, rubber good 2,000 ft. Chief engineer, D. C. R. Layton; chairman of fire and water com. W. F. Tunnell.

WATER SUPPLY—Source, driven wells; system, pumping to mains. Town clerk, C. L. Moore.

Laurel, Sussex Co., population 2,388; mercantile; buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department owned by manufacturers—2 hand engines; hose, leather good 200 ft.

WATER SUPPLY—Source, wells and creek. Town clerk, I. J. Wooten.

Leipsic, Kent Co., population 355; fire area 2 1/2 acres; mercantile buildings, wood, 2 and 3 stories. Fire department—buckets and ladders.

No Water Supply.

Middletown, New Castle Co., population 1,553; fire area 320 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 1/2 and 3 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 30, volunteers; whistle and bell alarm; fire companies 1. Chief engineer, J. A. Suydam.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe, cap 37,000 gals; Worthington pumping engines, cy cap 500,000 gals every 24 hours; 21 hydrants; pipe 3 miles; pressure, domestic 45, fire 75 pounds; works owned by city.

Milford, Kent Co., population 3,500; fire area 18 1/2 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,500; total membership 45, volunteers; whistle, bell and electric alarm. Chief engineer, S. N. Gray.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe and direct; standpipe cap 38,000 gals; pumping engines, dy cap 750,000 gals; 52 hydrants; pipe 4 1/2 miles, 4 to 10 in dia; pressure, domestic 47, fire 80 to 120 pounds; waterworks owned by city; original cost to construct \$43,000. Supt. W. T. Banning.

Newark, New Castle Co., population 1,200; mercantile buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage, 2 hose tenders; hose, cotton good 750 ft, rubber good 400 ft; value of fire department equipment \$1,800; value of buildings occupied \$2,300; total membership 90, volunteers 50; bell and whistle alarm. Chief engineer, Peter A. Riley.

WATER SUPPLY—Source, one surface well 35x20; system, pumping to reservoir, cap 188,000 gals; Holly pumping engines, dy cap 1,000,000 gals; 38 hydrants; pipe 2 1/2 miles, 6 to 10 in dia; pressure, domestic 60, fire 125 pounds; quality of water good; cost to construct \$35,000; cost to date \$37,500. Supt. A. Homewood.

New Castle, New Castle Co., population 5,980; fire area 2,110 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick, 2 and 3 stories; no fireworks ordinance; wooden roofs permitted. Fire department—2 steam fire engines, 35 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500 ft, rubber inferior 500 ft; value of fire department

equipment \$6,500; value of buildings occupied \$8,000; total ann expenses of department \$1,000; total membership 13, paid full time 2, remainder volunteers. Chief engineer, Richard J. Conway. #

WATER SUPPLY—Source, creek and springs; system, pumping to reservoir; reservoir cap 1,250,000 gals; pumping engines, dy cap 432,107 gals; 40 hydrants; pipe 9 miles, 4 to 12 in dia; quality of water good; pressure, 25 to 30 pounds; works owned by company; cost to construct \$110,000; ann expenses \$4,000; int on bonds 5 per cent. Supt, Isaac C. Slaw. #

Searford, Sussex Co., population 2,000; fire area 200 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; shingle roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, value \$350.

WATER SUPPLY—Source, private wells.

Smyrna, Kent Co., population 2,455; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages; 1,500 ft good rubber hose. Chief engineer, H. S. Anthony. #

WATER SUPPLY—Source, well 20 ft dia, 18 1-2 ft deep; system, pump direct to standpipe; standpipe cap 37,500 gals; pumping engines, dy cap 500,000 gals; 35 hydrants; pipe 4 miles 4, 6 to 8 in dia; 20

valves; pressure, domestic 45, fire 57 to 100 pounds; cost to construct \$24,000; ann expense, \$1,000 int on bonds 4 per cent. Supt, A. Taylor. #

Wilmington, New Castle Co., population 65,000; fire area 10 square miles; mercantile buildings, brick and stone, 2 to 7 stories; private, brick and stone, 2 to 4 stories; wooden roofs are permitted, mostly tin and slate; fireworks ordinance. Fire department—8 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages, all kinds, 3 hose wagons; hose, cotton good 10,000 ft, inferior 2,000 ft, rubber good 500 ft, inferior 1,000 ft, 28 horses, value \$1,000; value of fire department equipment \$60,000; value of buildings occupied \$100,000; total ann expenses of department \$28,000; total membership about 1,000, paid full time 9, no. of volunteer members 1,000, Gamewell alarm; 43 street boxes; 8 engine companies, 1 hook and ladder company. Chief engineer, Dennis S. Shields.

WATER SUPPLY—Source, Brandywine creek; system, pumping to reservoir; reservoir cap 40,000,000 gals; pumping engines, dy cap 20,000,000 gals; 603 hydrants; pipe 835 miles, 3 to 30 in dia; pressure, domestic 20, fire 60 pounds; waterworks owned by city; original cost to construct \$750,000; expenses of construction to date \$1,500,000; ann expenses \$50,000. Supt, Jos. A. Bond.

DISTRICT OF COLUMBIA.

Washington, (includes Georgetown) population 279,200; buildings, brick, stone and wood, 1 to 9 stories; fireworks ordinance; causes of fire investigated. Fire department—11 steam fire engine, 30 chemical extinguishers, 4 hook and ladder trucks, 11 hose carriages, 2 fuel carts, 1 double tank 85 gals each, chemical engine, siamese couplings; hose, cotton good 18,000 ft, inferior 2,070 ft; total value of 60 horses, fire department equipment and 11 buildings occupied \$150,000; total ann expenses of department, 1801, \$159,064; total membership 130, full paid; telegraph alarm; 160

street boxes. Chief engineer, Joseph Parris.

WATER SUPPLY—Source, Great Falls of the Potomac; system, low service gravity, high service pumping into reservoir; 1,500,000 gals; high service; reservoir cap 170,000,000 gals; gravity service; pumping engines, dy cap 5,000,000 gals; 1,387 hydrants; pipe 266 miles, 3 to 70 in dia; pressure varies from 10 to 90 pounds according to elevation; waterworks owned part by city part U. S. cost to construct \$5,500,000; ann expenses \$138,304. Supt, H. F. Hayden.

FLORIDA.

Apalachicola, Franklin Co., population 2,727. Fire department—1 hand engine and 500 ft of good hose.

WATER SUPPLY—From river, wells and cisterns. Town Clerk, G. W. Hinsey.

Bartow, Polk Co., population 1,386; buildings, wood and brick, 2 stories; wooden roofs permitted. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 200 ft; value of fire department equipment \$1,500; value of buildings occupied \$600; total membership 30, volunteers; bell alarm. Chief Engineer, C. E. Reed.

WATER SUPPLY—From tank, cap 3,000 gals, supplied from stream. System contemplated.

Brookville, Hernando Co., population 800; buildings, frame, 1 and 2 stories. Fire department—2 chemical engines; hose, rubber good 300 ft, inferior 150 ft; value of fire department equipment \$1,500; total membership 30, volunteers; bell alarm. Chief engineer, W. D. Cobb.

WATER SUPPLY—Source, wells.

Daytona, Volusia Co., population 1,200; fire area 1½ by ½ mile; buildings, frame, 2 stories. Fire department—2 chemical engines, 2 hose carriages; hose, rubber good 180 ft; value of fire department equipment \$3,000.

WATER SUPPLY—Source, river and artesian wells; pipe 11-4 miles, 4 in.

DeLand, Volusia Co., population 2,500; fire area 20 acres; mercantile buildings, brick and wood, 2 and 4 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; 1,000 ft cotton hose; value of fire department equipment \$2,150; value of buildings occupied \$500; total membership 30, volunteers; bell alarm. Chief, Silas B. Wright.

WATER SUPPLY—Source, artesian well 400 ft deep, located in city; system, pumping to standpipe and direct; standpipe cap 50,000 gals; pumping engines, dy cap 250,000 gals; 5 hydrants; pipe ½ mile, 10 in dia; pressure, domestic 48, fire 150 pounds; waterworks owned by city; cost to con-

struct \$30,000; ann expenses \$500. Supt, C. L. Willatowski.

Eustis, Lake Co., population 2,000; fire area 7 1-2 acres; buildings, brick, wood and iron, 2 and 3 stories; wooden roofs permitted. Fire department—2 chemical engines on wheels, 3 chemical hand extinguishers, 1 hook and ladder truck, buckets; hose, cotton good 300 ft, rubber good 300 ft; value of fire department equipment \$1,200; total ann expenses of department \$125; total membership 18; bell alarm. Chief engineer, W. D. Kimball.

WATER SUPPLY—Source, lake. Works contemplated.

Fernandina, Nassau Co., population 3,200; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds, 2 hose wagons; hose, cotton good 2,000 ft, inferior 1,850 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,500; total ann expenses of department \$1,000; total membership 77, paid full time 2, volunteers 75; whistle and telephone alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, J. Fred Lohman.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe and direct; reservoir cap 150,000 gals; standpipe cap 110,000 gals; dy cap 1,250,000 gals; 53 hydrants; pipe 4 1-2 miles, 4, 6 and 10 in dia; pressure, domestic 50, fire 150 pounds; works owned by city; cost to construct \$40,000; ann expenses \$2,200. Supt, Chas. Williams. Will add new duplex compound pump, dy cap 1,500,000 gals.

Gainesville, Alachua Co., population 2,790; fire area 100 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hoses, value \$300; value of fire department equipment \$700; value of buildings occupied \$700; total membership 31, volunteers; court house bell alarm. Chief engineer,

James A. Morris; chairman of fire and water com. **H. H. McCreary**.

WATER SUPPLY—Source, wells. Waterworks in course of construction.

Jacksonville, Duval Co., population 20,000 fire area 1,200 acres; mercantile buildings, brick and wood, 2 to 6 stories; private, wood, 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam engine, 1 hand engine, 7 chemical extinguishers, 1 aerial truck, 2 hook and ladder trucks, 2 hose carriages, 2 hose wagons; hose, cotton good 5,700 ft, inferior 2,300 ft; 10 horses, value \$1,700; value of fire department equipment \$18,000; value of buildings occupied \$7,000; total ann expenses of department \$22,352.72; total membership 27, paid full time 26; Gamewell alarm; 20 street boxes. Chief engineer, **Thos. W. Haney**; chairman of fire and water com., **J. C. L'Engle**.

WATER SUPPLY—Source, 3 artesian wells; system, pumping direct; reservoir cap 450,000 gals; pumping engines, dy cap 3,500,000 gals; 73 double and 57 single hydrants; pipe 11 miles, 2 to 14 in dia; pressure, domestic 45, fire 60 pounds; waterworks owned by city; original cost to construct \$120,000; ann expenses \$11,500. Inspector, **E. M. Kean**.

Key West, Monroe Co., population 18,000; fire area 700 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—4 engines, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,250 ft, inferior 1,700 ft; 12 horses, value \$3,000; value of fire department equipment \$15,000; value of buildings occupied \$3,000; total ann expenses of department \$10,000; total membership 150, paid full time 13; 10 fire companies, 4 engine companies, 1 hook and ladder company, 4 hose companies. Chief engineer, **B. F. H. Bowers**.

WATER SUPPLY—Source, ocean for fire purposes and artesian wells for domestic; 70 hydrants; each dwelling has a cistern, cap 10,000 gals. Arrangements for putting in complete system are being made.

Missimmee City, Osceola Co., population 1,086; fire area 1-2 by 1-4 mile; buildings, brick and wood, 1 and 2 stories; fireworks ordinance; wooden roofs are permitted. Fire department—2 chemical engines, 1 hook and ladder truck.

WATER SUPPLY—Source, private wells and cisterns. **J. R. Gilbert**, city clerk.

Lake City, Columbia Co., population 2,000; fire area 1 sq mile; mercantile buildings, brick in fire limits, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 1,300 ft inferior 300 ft; value of fire department equipment \$2,000; volunteer members 50; electric alarm; 1 hose company. Chief, **J. Potadamer**.

WATER SUPPLY—Source, Lake Isabella; system, direct pumping; 2 pumping engines; 30 hydrants; pipe 3 miles, 1-2 to 6 in dia; pressure, domestic 40 to 60, fire 100 pounds; cost to construct \$10,000. Pres., **A. B. Hart**.

Lakeland, Polk Co., population 900; buildings, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department consists of ladders, axes and bucket brigade. Mayor, **H. J. Drane**.

WATER SUPPLY—Source, wells.

Leesburg, Lake Co., population 1,500; fire area 30 acres; mercantile buildings, brick in fire limits, 1 and 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose reels; hose, rubber lined 1,000 ft; value of fire department equipment \$5,500; value of buildings occupied \$500; expenses of department \$350; membership 20, volunteer, paid part time 1; bell alarm. Chief, **Adam Noble**.

WATER SUPPLY—Source, 2 cisterns, cap 6,000 gals, filled by underground pipe from ice factory. Are building 20,000 gal tank on 80 ft tower and 5 fire hydrants.

Madison, Madison Co., population 781; buildings, brick and wood. No organized fire department; a manufacturing company have a trained force of men always on duty in case of fire, with hose, buckets and ladders.

WATER SUPPLY—Source, tanks, pumps and 5 hydrants.

Milton, Santa Rosa Co., population 2,000; fire area 2 acres; buildings, wood and brick. Fire department—1 hand engine.

WATER SUPPLY—Source, river. Have been talking about putting in works.

Ocala, Marion Co., population 4200; fire area 5250 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; cause of fire investigated. Fire department—1 hook and ladder truck, 5 hose carriages, 1 hose wagon, 4 hose reels; hose, rubber good 250 ft, 2750 ft good cotton; 2 horses value \$850; value of fire department equipment \$8000; value of buildings occupied \$1000; total ann expenses of department \$400; total membership 75, volunteers; bell fire alarm. Chief, **C. A. Campbell**.

WATER SUPPLY—Source, artesian wells; system, pump to standpipe and to reservoir; cap reservoir 75,000 gals; standpipe cap, 1,100,000 gals; pumping engine, dy cap 1,000,000 gals; 89 double hydrants; pipe 8½ miles, 6 to 10 in dia; pressure, domestic 50 pounds, fire 100; cost to construct \$75,599. Supt., **C. H. Campbell**.

Orange City, Volusia Co., population 900; fire area 350 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—ladders and pails; will purchase hose, etc.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe and direct; standpipe cap 100,000 gals; pumping engines dy cap 1,500,000 gals; hydrants 15; pipe 9 miles, 10 to 4 in dia; pressure, domestic 50 to 60, fire 100 pounds; waterworks owned by company; cost to construct \$50,000. Supt., **T. C. Rowell**.

Orlando, Orange Co., population 4000; mercantile buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted. Fire department—1 steam fire engine, 3 chemical engines, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3000 ft; value of fire department equipment \$4000; total membership 60; volunteers; bell alarm. Chief, **John W. Gettier**.

WATER SUPPLY—Source, lake; system, direct and pumping to standpipe and direct; 2 Knowles pumping engines, dy cap 2,000,000 gals; cap standpipe 110,000 gals; 55 hydrants; pipe 14 miles, 4 to 12 in dia; pressure, domestic 50, fire 80 pounds; cost to construct \$150,000; ann expenses \$4509. Local manager, **H. W. Greetham**.

Palatka, Putnam Co., population 4000; fire area 800 acres; mercantile buildings, wood and brick 3 stories; private, wood, 1 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; cause of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carriages, all kinds; 1 hose wagon; other apparatus, 2 small hose reels; hose, rubber good 900 ft, cotton good 1,200 ft, inferior 100 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,000; total ann expenses of department \$300; total membership 85; bell alarm. Chief engineer, **Geo. E. Gay**.

WATER SUPPLY—Source, White Water springs; system, pumping to standpipe; standpipe cap 250,000 gals; pumping engines, dy cap 371,000,000 gals; 80 hydrants; pipe 8 miles, 12 to 4 to dia; pressure, domestic 65, fire 65 pounds; works owned by company; cost to construct \$140,000. Supt., **L. Hendrickson**.

Pensacola, Escambia Co., population 17,000; fire area 80 A; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hook and ladder trucks, 3 hose carriages; hose, rubber good 1800 ft; inferior 500 ft, cotton 250 ft; 8 horses, value \$9050; value of fire department equipment \$13,250; total ann expenses of department \$6000; total membership 250, paid full time 5; volunteers 245; Gamewell alarm; 27 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, **J. Baker**.

WATER SUPPLY—Source, wells; system, gravity; pumping to standpipe; cap 335,000 gals; pumping engines, dy cap 4,000,000 gals; 122 hydrants; pipe 14 miles, 6 to 14 in dia; pressure 60 to 80 pounds; waterworks owned by company; original cost to construct \$180,000; expenses of construction to

date \$192,000; ann expenses, \$8,600. Supt, B. R. Pitt.

St. Augustine, St. John's Co., population 4742; fire area $1\frac{1}{2} \times 3$ miles sq; mercantile buildings, brick and concrete, 2 stories; private, wood, 2 stories; wooden roofs not permitted inside of fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 4 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages; hose, cotton good 4,000 ft, rubber good 500 ft; value of fire department equipment \$15,000; value of buildings occupied \$1,000; total ann expenses of department \$4,000; total membership 110, paid full time 3, volunteers 110; bell alarm; 5 fire companies, 3 engine companies, 2 hook and ladder companies. Chief engineer, W. Milford Ingraham.

WATER SUPPLY—Source, artesian wells; 41 hydrants, Ludlow; pipe $4\frac{1}{2}$ miles, 4 to 6 in dia; service pipe galv iron; pressure, domestic, 15 pounds; waterworks owned by company; original cost to construct \$35,000. Supt, E. F. Joyce.

Sanford, Orange Co., population 3,000; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; 1 hose wagon, other apparatus; 1 hose reel; hose, linen good 1500 ft; inferior 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,000; total ann expenses of department \$700; total membership 40, 1 paid part time; volunteer members 39; electric bell alarm; 6 street boxes; 4 fire companies. Chief engineer, H. M. Papworth.

WATER SUPPLY—Source, spring water lake; system, gravity and pumping direct; reservoir cap 250,000 gals; pumping engines, dy cap 1,750,000 gals; 62 hydrants; pipe 10 miles, 3 to 12 in dia; service pipe galv iron; pressure, domestic 35 to 45, fire 100 pounds waterworks owned by Sanford Water & Works Co.; original cost to construct \$62,000 Pres and supt, F. H. Rand.

Seville, Volusia Co., population estimated 500; mercantile buildings, wood, 2 stories; wooden roofs permitted.

WATER SUPPLY—Source, Lake Louise, pumping to tanks; cap 53,000 gals; dy cap 200,000 gals; pipe 2 miles, 4 to 10 in dia; 8 hydrants; pressure 22 to 30 pounds; cost to construct \$10,000. R. H. Mason.

Tallahassee, Leon Co., population 3,500; fire area 20 acres; mercantile buildings, brick, stone and iron, 2 stories; private, brick, 2 stories; wooden roofs not permitted; fireworks ordinance.

Albany, Dougherty Co., population 4,008; mercantile buildings, brick and wood, 2 stories; private, outside fire limits, 1 and 2 stories. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 2,300 ft; value of equipment \$15,000; value of buildings occupied \$10,000; total membership 100, volunteers. Chief engineer, F. G. Edwards; asst chief, M. D. Gortatowsky.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe and direct; reservoir cap 350,000 gals; standpipe cap 185,000 gals; pumping engines, dy cap 2,000,000 gals; 105 hydrants; pipe 12 miles, 4 to 12 in dia; pressure, domestic 45 to 60, fire 100 pounds; waterworks owned by city; original cost to construct \$73,500; cost to date \$74,000; ann expenses \$4,000. Supt, Wm. Lockett.

Americus, Sumter Co., population 10,000; fire area 103 acres; mercantile buildings, brick, 1 to 5 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 4 chemical extinguishers, 2 hose wagons; hose, cotton good 2,800 ft, inferior 100 ft; 3 horses, value \$700; value of fire department equipment \$10,000; value of buildings occupied \$35,000; total ann expenses of department \$2,100; total membership 14, paid full time 7, paid part time 7; bell alarm. Chief engineer, E. L. Stanfield; chairman of fire and water com, Dr. G. T. Miller.

WATER SUPPLY—Source, spring and wells, 1 mile north of city; system, pumping to standpipe and direct; standpipe cap 135,000 gals; pumping engines, dy cap 2,000,000 gals; 72 hydrants; pipe 11 miles, 4, 6, 8 to 10 in dia; pressure, domestic 40 to

80, fire 60 to 100 pounds; waterworks owned by city; original cost to construct \$35,000; ann expenses \$5,000. Supt, G. M. Eldridge.

Athens, Clark Co., population 10,000; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, rubber good 1,500 ft, cotton good 1,000 ft; 6 horses, value \$1,200; value of fire department equipment \$9,000; value of buildings occupied \$11,000; total ann expenses of department \$6,000; total membership 35, paid full time 15, call men 20; Gamewell electric alarm; street boxes 11; total no. of fire companies 2. Chief engineer, Geo. McDorman; chairman of fire and water com, W. D. O'Farrell.

WATER SUPPLY—Source, springs, creeks; system, pumping to standpipe; reservoir cap 22,000,000 gals; standpipe cap 250,000 gals; pumping engines, dy cap 1,750,000 gals; hydrants 73; pipe 9 miles, 4 to 12 in dia; 25 valves; pressure, domestic 65, fire 78 pounds; cost to construct \$128,000; ann expenses \$3,500; int on bonds \$6,000. Supt, W. L. Wood.

Atlanta, Fulton Co., population about 100,000; fire area 1,495 acres; mercantile buildings, brick, 3 to 8 stories; private, wood and brick, 1 to 3 stories; tin or gravel roof; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 two-horse chemical engine, Champion, 16 chemical hand extinguishers, 2 hook and ladder trucks, 8 hose wagons, all kinds, other ap-

Tampa, Hillsborough Co., population 12,000; fire area 2 1-2 sq miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted except in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 8 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 9 hose carriages, all kinds, 4 hose wagons; hose, cotton good 4,200 ft, rubber good 1,700 ft, inferior 2,000 ft; 4 horses, value \$800; value of fire department equipment \$23,000; value of buildings occupied \$25,000; total ann expenses of department \$8,230; total membership 211, paid full time 4, volunteers 207; Gamewell alarm; 21 street boxes. Chief engineer, A. J. Harris.

WARRINGTON, Escambia Co., population 1,150; fire area 455 acres; mercantile buildings, wood and brick, 1 to 3 stories; private, wood, 1 to 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 20 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 2 hose wagons; hose, inferior 1,000 ft, cotton good 1,500 ft; 4 horses, value \$850; value of fire department equipment \$4,500; value of buildings occupied \$2,000; total membership 110, volunteers 40; bell alarm; total no. of fire companies 1, 1 hook and ladder company. Chief engineer, A. V. Reed.

WATER SUPPLY—Source, bay, wells and cisterna.

GEORGIA.

paratus, siemens couplings; hose, cotton good 19,500 ft; 25 horses; value of fire department equipment \$60,000; value of 6 buildings owned \$160,000; total ann expenses of department \$81,900; total membership 90, all full paid; electric alarm; 75 street boxes. Chief engineer, W. R. Joyner.

WATER SUPPLY—Source, Chattahoochee river, located six miles from city; system, pumping direct into mains; reservoir cap 170,000,000 gals; pumping engines, dy cap 20,000,000 gals; 681 hydrants; pipe 56 miles, 40 to 30 in dia; pressure, domestic 50, fire 80 pounds; waterworks owned by city; cost to construct \$800,000; ann expenses \$54,000. Supt, Wm. G. Richards.

Augusta, Richmond Co., population 45,000; fire area 5 by 3½ miles; mercantile buildings, brick, 3 and 4 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—5 steam fire engines, 3 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages, all kinds, 1 supply wagon, 1 coal cart; hose, rubber good 5,500 ft, inferior 1,500 ft; 23 horses, value \$4,500; value of fire department equipment \$25,000; value of buildings occupied \$75,000; total ann expenses of department \$49,775.88; total membership 53, paid full time 53; Gamewell electric alarm; 55 street boxes. Chief engineer, F. J. Roulett. Proposed purchase chemical engine.

WATER SUPPLY—Source, Savannah river, 7 miles west of city; system, pumping direct; reservoir cap 100,000,000 gals; pumping engines, dy cap 10,000,000 gals; 400 hydrants; pipe 46 miles, 30 to 4 in dia; pressure, domestic 45, fire 60 pounds; works owned by city; cost to construct \$320,000; ann expenses \$4,500. Supt, Wm. Bennett.

Bainbridge, DeKalb Co., population 1,668; fire area 25 acres; mercantile buildings, brick, 2 stories; private dwellings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 700 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; ann expenses \$1,000; total membership 125, volunteers; 3 fire companies, 2 hose companies, 1 hook and ladder company; bell alarm. Chief, T. B. Gremmer.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; pumping engines, dy cap 80,000 gals; 100 hydrants; pipe 8 miles, 3 to 6 in dia; pressure 50 pounds; cost to construct \$20,000. Supt, Thomas Land.

Barnesville, Pike Co., population 3,000; fire area 1 sq mile; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; tin and iron roofs; fireworks ordinance; wooden roofs not permitted. Fire department—1 hook and ladder truck, 2 hose carriages, siemens couplings, 2 reel hose, hose, rubber good 1,500 ft; value of fire department equipment \$4,000; value of 1 owned building \$1,500; total ann expenses of department \$300; total membership 70, paid full time 1. Chief, G. L. Summers.

WATER SUPPLY—Source, bluff spring; system, gravity, pump to reservoir at top of mountain; reservoir cap 450,000 gals; pumping engines, cap 500,000 gals, in ten hrs; 32 hydrants; pipe 6 miles, 8, 6, and 4 in dia; pressure 80 to 85 pounds; waterworks owned by city; cost to construct \$20,000; cost to date \$20,000; ann expenses \$1,500. Supt, E. H. Bloodworth.

Boston, Thomas Co., population 646; fire area 200 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 400 ft, inferior 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$3,000; bell alarm. Chief engineer, A. B. Cone.

WATER SUPPLY—Source, 3 cisterns; system, pumping into water main; reservoir cap 8,500 gals; cost to construct \$7,500. Mayor, A. B. Cone.

Brunswick, Glynn Co., population 10,000; fire area 2,000 acres; mercantile buildings, brick, concrete, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 single, 1 double hose wagon; hose, rubber good 2,500 ft; 6 horses, value \$1,000; value of fire department equipment \$12,000; value of buildings occupied \$4,000; total ann ex-

penses of department \$65,000; total membership 8, paid full time; Gamewell electric alarm; 22 street boxes. Chief engineer, John C. Green.

WATER SUPPLY—Source, artesian wells; system, pump to tank; cap of reservoir 150,000 gals; cap of standpipe 100,000 gals, dy cap 3,500,000 gals; 91 hydrants; pipe 15½ miles, 12, 6, 4 in dia; pressure, domestic 40, fire 80 pounds; works owned by company; cost to construct \$118,000; int on bonds \$12,000. Supt, W. E. Sutton.

Carrollton, Carroll Co., population 2,000; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, other apparatus, 24 rubber buckets; value of truck \$300.

WATER SUPPLY—No waterworks.

Cartersville, Bartow Co., population 3,171; fire area 100 acres; mercantile buildings, brick, 1 story; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon, 1,500 ft good cotton hose; value of department equipment \$3,000; total ann expenses of department \$50; total membership 65, all volunteers; bell alarm. Chief engineer, J. W. Alley.

WATER SUPPLY—Source, spring, 2 miles distant; system, pump to reservoir, cap 112,000 gals; pumping engines, dy cap 2,500,000 gals; hydrants 50; pipe 3 miles, 10 to 4 in dia; pressure 75 pounds; works owned by city; cost to construct \$88,000. Chairman of board, J. W. Alley.

Cedartown, Polk Co., population 3,500; fire area 3-4 sq mile; mercantile buildings, brick, 1 and 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 2 hose wagons; hose, cotton good 1,500 ft, inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 48, volunteers; bell alarm; total no of fire companies 3, 1 hook and ladder company, 2 hose companies. Chief engineer, J. A. Liddell.

WATER SUPPLY—Source, spring; system, standpipe; standpipe cap 227,000 gals; pumping engines, dy cap 2,000,000 gals; 50 hydrants; pipe 3½ miles, 4 to 12 in dia; pressure, fire 74 pounds; works owned by city; original cost to construct \$33,000; int on bonds 6 percent. Supt, O. W. Hallett.

Cochran, Pulaski Co., population 1,500; mercantile buildings, brick and frame, 1 and 2 stories. Fire department—1 steam fire engine, 1 hose carriage; hose, rubber good 800 ft; 1 building used. Chief, W. B. Watts.

WATER SUPPLY—Source, 3 large wells; system, pumping to cistern; cap of cistern 20,000 gals. Town clerk, R. L. Stokes.

Columbus, Muscogee Co., population 19,000; fire area 425 acres; mercantile buildings, brick, 1 to 4 stories; private, wood, 1 and 2 stories; wooden buildings not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 in reserve, 3 hose carriages, 1 hose wagon; hose, cotton good 6,000 ft; 15 horses, value \$2,800; value of fire department equipment \$29,000; value of buildings occupied \$25,000; total ann expenses of department \$16,700; volunteer members 125, paid full time 17; Gamewell alarm; 22 street boxes; 5 fire companies, 2 engine companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. J. Burrus; chairman of fire com, H. W. Bussey.

WATER SUPPLY—Source, creek 3 miles from city; system, gravity; cap of reservoirs 145,000,000 gals; standpipe cap 281,866 gals; 102 hydrants; pipe 20 miles, 6 to 12 in dia; service pipe 3-4 in galv iron; pressure 40 pounds; waterworks owned by company; cost to construct \$500,000; ann expenses \$6,000. Supt, M. H. Tuggle.

Conyers, Rockdale Co., population 1,500; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories. Fire department—1 hand engine, 1 hose carriage. Marshal, M. H. Austin.

WATER SUPPLY—Source, wells and tank; cap of tank 15,000 gals. (Works contemplated.)

Cordelle, Dooley Co., population 2,000; mercantile buildings, brick and wood, 2 stories; private,

wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 3,000 ft; total membership 21, volunteers; bell alarm. Chief engineer, W. N. Ray.

WATER SUPPLY—Source, Mineral springs, $\frac{1}{2}$ mile from town; system, pumping direct; pumping engines, dy cap 300,000 gals; 15 hydrants; pipe 5 miles, 4 to 8 in dia; pressure, domestic 80, fire 125 pounds; waterworks owned by city; original cost to construct \$14,000; expenses of construction to date \$16,000. Supt, F. M. Floyd.

Cuthbert, Randolph Co., population 3,000; use of firecrackers and fireworks prohibited; buildings, brick and stone, 1 to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 chemical engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft, inferior 1,600 ft; value of fire department equipment \$12,000; total ann expenses of department \$3,000; total membership 150, volunteers; bell alarm. Chief engineer, Chas. Taunton.

WATER SUPPLY—Source, creek and 5 cisterns, cap cisterns 77,000 gals dy.

Dahlonega, Lumpkin Co.

WATER SUPPLY—Source, wells, springs and canal; hand fire pumps.

Dalton, Whitfield Co., population 3,046; mercantile buildings, brick and frame, 1 to 3 stories. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton inferior 1,300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,350; total ann expenses of department \$150; total membership 48, volunteers; bell alarm; total no of fire companies 3. Chief engineer, Frank Maul.

WATER SUPPLY—Source, ground springs; system, pumping to standpipe; reservoir cap 116,800 gals; standpipe cap 188,000 gals; pumping engines, dy cap 1,000,000 gals; 45 hydrants; pipe 6 miles, 4 to 10 in dia; pressure 62 $\frac{1}{2}$ pounds; waterworks owned by city; original cost to construct \$35,000; expenses of construction to date \$37,600; ann expenses \$1,500; int paid on bonds \$1,500. Supt, C. G. Spencer.

Darien, McIntosh Co., population 1,491; mercantile buildings, brick, 1 story; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,900 ft; value of fire department equipment \$4,500; total membership 15, paid full time 1, paid part time 14; bell alarm. Chief engineer, A. Bailey.

WATER SUPPLY—Source, river, artesian wells, 1 reservoir; reservoir cap 28,000 gals. Mayor, Jas. Walker.

Dawson, Terrell Co., population 3,000; fire area 1,440 sq ft; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; fireworks ordinance; causes of fire investigated; wooden roofs not permitted. Fire department—1 steam fire engine, 1 chemical engine on wheels; 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$6,000; 1 building owned, \$800; total membership 75, volunteers; bell alarm. Chief, A. J. Baldwin.

WATER SUPPLY—Source, springs and streams; system, pumping to standpipe; standpipe cap 75,000 gals; pumping engines, dy cap 1,000,000 gals; 50 hydrants; pipe 5 3-4 miles, 4 to 8 in dia; pressure 55 pounds; works owned by company; cost to construct \$35,000. Supt, J. A. Harsley.

Elberton, Elbert Co., population 2,250; fire area 1 sq mile; buildings, stone and brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck; value of fire department equipment \$500; value of buildings occupied \$1,200; ann expenses \$150; total membership 40; bell alarm. Chief, R. J. Spaun.

WATER SUPPLY—Source, wells and springs.

Forsyth, Monroe Co., population 920; mercantile buildings, brick and wood, 1 story; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, wells and springs. Mayor, W. E. Sanders.

Fort Gaines, Clay Co., population 1,600; fire

area 15 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$15,000; total membership 50, volunteer; bell alarm; fire companies 2. Chief engineer, J. E. Peterson.

WATER SUPPLY—Source, artesian wells; system, pump to tank, cap 22,000 gals; pumping engines, dy cap 220,000 gals; 9 hydrants; pipe 2 miles, 6 in dia; pressure 70 pounds; cost to construct \$7,500; ann expenses \$300. Supt, P. B. Williams.

Fort Valley, Houston Co., population 1,752; mercantile buildings, brick, 1 and 2 stories; wooden roofs not permitted in fire limits. No fire department.

WATER SUPPLY—Source, springs, 3 miles east of city; system, direct to mains, surplus to tank; cap tank 50,000 gals; dy cap of pump 400,000 gals; 18 hydrants; mains 10 miles, 4 to 10 in dia; pressure 60 to 75 pounds; works owned by city; cost to construct \$25,000. Supt, F. O. Miller.

Gainesville, Hall Co., population 3,202; fire area 10 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,200 ft, inferior 500 ft, leather good 500 ft; value of fire department equipment \$8,000; total ann expenses of department \$800; total membership 95, all volunteers; bell alarm; 3 fire companies. D. J. Evans.

WATER SUPPLY—Source, spring 2 1-2 miles north; system, pumping to standpipe; standpipe cap 120,000 gals; pumping engines, dy cap 700,000 gals, Deane; 30 hydrants, Ludlow; pipe 6 miles, 4 to 10 in dia; pressure, domestic 65, fire 150 pounds; waterworks owned by city; original cost to construct \$32,000; expenses of construction to date \$35,000.

Greensboro, Green Co., population 1,313; mercantile buildings, brick, 2 stories; private, wood, 2 stories; roofs principally metallic; fireworks ordinance. Fire department—1 hook and ladder truck; 22 volunteer members; 1 hook and ladder company. Chief engineer, Ben Brown.

WATER SUPPLY—Source, wells.

Grimm, Spaulding Co., population 6,000; fire area 100 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 1 aerial truck, 6 hose carriages, all kinds; hose, rubber good 1,800 ft, inferior 200 ft; value of fire department equipment \$16,000; value of buildings occupied \$2,000; total membership 150, paid full time 3; an alarm to be put in at once. Chief engineer, M. F. Morris.

WATER SUPPLY—Source, spring located 1 mile from city; system, use pump from reservoir; reservoir cap 250,000 gals; pumping engines, dy cap 1,000,000 gals each; 44 hydrants; pipe 6 miles, 4, 6 & 8 in dia; pressure, domestic 40 to 50, fire 70 to 80 pounds; waterworks owned by company; cost to construct about \$30,000; ann expenses \$2,000. Supt, Henry C. Burr.

Hawkinsville, Pulaski Co., population 2,500; fire area 250 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,500 ft, inferior 500 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$300; total membership 60, volunteers; bell alarm; 2 fire companies, 1 engine company, 1 hook and ladder company. Chief engineer, E. J. Henry.

WATER SUPPLY—Source, artesian wells; cap of reservoir 90,000 gals; 25 hydrants; pipe 3-4 miles, 2-4 in dia; works owned by city; cost to construct \$6,000.

LaGrange, Troupe Co., population 4,000; fire area 700 acres; mercantile buildings, stone and brick, 1 to 3 stories; private, wood; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,500 ft; value of fire department equipment

\$2,000; value of buildings occupied \$3,500; total membership 31, volunteers; bell alarm. Chief engineer, R. J. Guinn; chairman of fire com, J. E. Toole.

WATER SUPPLY—Source, Blue Johns creek; system, pumping to standpipe; reservoir cap 150,000 gals; standpipe cap 123,710 gals; pumping engines, dy cap 1,000,000 gals; 79 hydrants, Ludlow; pipe 6½ miles, 4 to 8 in dia; pressure, domestic 65, fire 85 pounds; waterworks owned by American Pipe Mfg Co.; ann expenses \$1,500. Supt, D. M. Winerman.

Macon, Bibb Co., population 22,746; mercantile buildings, brick and stone, 2 to 5 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 chemical engine on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages; hose, rubber good 4,900 ft; 19 horses, value \$4,500; value of fire department equipment \$16,600; value of buildings occupied \$25,000; total ann expenses of department \$40,000; total membership 46, paid full time; Gamewell alarm; 39 street boxes. Chief engineer, L. M. Jones.

WATER SUPPLY—Source, springs and river; system, pumping to reservoir and standpipe; reservoir cap 2,500,000 gals; standpipe cap 72,000 gals; pumping engines, dy cap 5,000,000 gals, Worthington; 200 hydrants; pipe 35 miles, 4 to 20 in dia; service pipe galv iron; pressure 45 pounds; waterworks owned by company; expenses of construction to date \$476,679. Supt, W. A. Jeter.

Madison, Morgan Co., population 3,000; fire area 1,000 yards; mercantile buildings, brick, slate and tin roofs, 2 stories; private, frame, 2 stories; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical hand extinguishers, 1 hook and ladder truck, 38 rubber buckets; value of fire department equipment \$1,250; value of buildings occupied \$3,500; total membership 70; bell alarm. Chief, C. B. Markham.

WATER SUPPLY—Source, wells. Mayor, E. W. Butler.

Marietta, Cobb Co., population 3,384; buildings, brick, 1, 2 and 3 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical hand extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,500 ft, inferior 200 ft; value of fire department equipment \$8,500; 1 building rented at \$200 per year; total ann expenses of department \$400; total membership 85, volunteers. Chief engineer, C. P. Stephens.

WATER SUPPLY—Source, 7 cisterns filled from buildings, pumps, cap of each 15,000 gals; also 1 of 40,000 gals and 2 of 30,000 gals.

Milledgeville, Baldwin Co., population about 4,000; fire area 25 acres; mercantile buildings, brick, metal roofs in fire district, 2 stories; private, frame, 2 and 3 stories; fireworks ordinance; wooden roofs not permitted. Fire department—1 hand engine, 1 hook and ladder truck with buckets, 4 hose carriages; hose, rubber good 950 ft, cotton good 150 ft; value of fire department equipment \$2,400; value of buildings occupied \$600; ann expenses \$4, \$1,150; 65 volunteer members; bell alarm. Chief Joseph Staley.

WATER SUPPLY—Source, Fishing creek 2 miles distance; system, pumping to standpipe; reservoir cap 150,000 gals; standpipe cap 150,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 70; pipe 7 miles, 4 to 10 in dia; pressure 65 pounds; waterworks owned by company; original cost to construct \$90,000; beside above works 5 cisterns in business part. Supt, J. F. Wilson.

Montezuma, Macon Co., population 708; fire area 1 mile; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 600 ft, inferior 400 ft, rubber good 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$500; total ann expenses of department \$224; total membership 40, volunteers, 2 paid; night watch alarm; 2 companies. Chief, R. O. Ingram. Hose reel has been ordered.

WATER SUPPLY—Source, 7 artesian wells and creek; cisterns, cap 100,000 gals; 3 fire plugs.

Norcross, Gwinnett Co., population 713; mercantile buildings, frame and brick. Fire department—1 hook and ladder truck.

WATER SUPPLY—Source, wells. Mayor, J. M. Holbrook.

Perry, Houston Co., population 1,500; fire area 700 to 800 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted, all new bids must be brick in business portion; fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells and creek. Waterworks proposed.

Quitman, Brooks Co., population 3,000; fire area 10 acres; mercantile buildings, brick, iron and wood, 2 stories. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 350 ft, poor 250 ft, rubber good 400; 2 horses, value \$400; value of fire department equipment \$3,500; total ann expenses of department \$250; total membership 20, volunteers; 1 fire company. Chief engineer, S. A. Remington.

WATER SUPPLY—Source, 5 cisterns, pumping from wells to cistern. Have bonded town for works.

Rome, Floyd Co., population 8,000; fire area 150 acres; mercantile buildings, brick, 2, 3 and 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 5 chemical extinguishers, 1 aerial truck, 6 hose carriages, hand, 2 hose wagons; hose, cotton good 2,500 ft, rubber good 1,000 ft, inferior 400 ft; 6 horses, value \$1,500; value of fire department equipment \$10,000; value of buildings occupied \$10,000; total ann expenses of department \$7,500; total membership 200, paid full time 6, paid part time 3; volunteer members 191; Gaynor alarm; 22 street boxes. Chief engineer, J. D. Hanks.

WATER SUPPLY—Source, river; system, pumping to reservoir; reservoir cap 3,000,000 gals; 2 pumping engines, dy cap 5,000,000 gals; 107 hydrants; pipe 12 miles, 4 to 16 in dia; pressure 80 pounds; waterworks owned by city; original cost to construct \$100,000; expenses of construction to date \$200,000; ann expenses \$6,000. Supt, L. J. Wagner.

Roswell, Cobb Co., population 1,138; mercantile buildings, frame and brick; no fire department; water buckets and hand grenades.

WATER SUPPLY—Source, wells.

Savannah, Chatham Co., population 60,668; fire area 4,000 acres; mercantile buildings, brick and wood, 2 to 6 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—5 steam fire engines, 1 chemical engine, double tank, 10 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 8 hose carriages, all kinds, 4 hose wagons, 2 supply wagons, 2 coal carts; hose, rubber good 1,500 ft, cotton good 8,500 ft; 33 horses, value \$9,500; value of fire department equipment \$91,000; value of buildings occupied \$23,000; total ann expenses of department \$55,958; total membership 60, paid full time 60; Gamewell electric alarm; 67 street boxes; 9 fire companies, 6 engine companies, 2 hook and ladder companies, 1 hose company. Chief engineer, Wm. B. Puder.

WATER SUPPLY—Source, 12 artesian wells; system, pumping to standpipe; standpipe cap 188,000 gals; 2 pumping engines, dy cap 10,000,000 gals each, Holly; 429 hydrants; pipe 42 miles, 4 to 42 in dia; service pipe lead and iron; pressure 40 pounds; waterworks owned by city; original cost to construct \$450,000; ann expenses \$40,000. Supt, James Manning.

Tallapoosa, Haralson Co., population 2,000; mercantile buildings, wood, 3 stories; private, wood, 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 aerial trucks, 2 hose carriages, all kinds, 2 hose wagons; hose, cotton good 2,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; total ann expenses of department \$500; total membership 60, paid full time 42, volunteer members or call men 14; bell alarm. Chief engineer, U. G. Brock.

WATER SUPPLY—Source, brook fed by springs; system, pumping to standpipe; standpipe cap 131,000 gals; Worthington pumping engines, dy cap, 2 pumps, 1,000,000 gals each; 46 hydrants, Ludlow; pipe 4½ miles, 12 to 4 in dia, Anniston; 28 valves, Ludlow; pressure 40 to 50 pounds; works owned

by company; cost to construct \$50,000; ann expenses \$5,000. Supt. M. A. Green.

Thomaston, Upson Co., population 1,500; mercantile buildings, brick, 1 story; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance. No fire department—buckets.

WATER SUPPLY—Source, wells.

Thomasville, Thomas Co., population 5,514; fire area 20 acres; mercantile buildings, brick, 2 stories; private, frame, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 2,000 ft; value of fire department equipment \$8,500; value 2 buildings owned by department \$400; total ann expenses of department \$530; total membership 125, volunteers; bell alarm. Chief, C. P. Hansell.

WATER SUPPLY—Source, artesian wells; system, gravity and pumping to standpipe; standpipe cap 25x100 ft; pumping engines, dy cap 300,000 gals; 87 hydrants; pipe 4 miles, 4 to 8 in dia; pressure 42 pounds; cost to construct \$25,000; ann expenses \$6,000. Supt. E. O. Thompson.

Thomson, McDuffie Co., population 950; fire area 2,500 acres; mercantile buildings, brick and wood; private, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine; 1 hook and ladder truck, 2 hose carriages, all kinds; hose, inferior 300 ft, cotton good 950 ft, inferior 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$200; total membership 40, paid part time 1, volunteer members 39; bell alarm. 1 hook and ladder company. Chief engineer, W. R. Hadley.

WATER SUPPLY—Source, wells and 20 cisterns, cap 18,000 gals each. Mayor, J. L. Holzendorf.

Tybee, Chatham Co., population estimated at 500; buildings, wood, 1 and 2 stories; wooden roofs permitted. A summer resort. The town has a Babcock chemical extinguisher and hand grenades. Hotels and many of the cottages are provided with grenades, also 3-4 in rubber hose connected with faucets.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir, cap 12,000 gals; tank cap 25,000 gals; dy cap 60,000 gals; 60 hydrants; pipe about 3 miles, 1, 3 and 4 in dia, different kinds; works owned by company; cost to construct about \$8,000; ann expenses \$100. Supt. Jno. G. Butler.

Valdosta, Lowndes Co., population 4,000; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs are not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, all kinds; hose, cotton good 1,500 ft, inferior 250 ft;

2 hoses, value \$350; value of fire department equipment \$5,000; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 65, volunteers. Chief engineer, A. F. Holt.

WATER SUPPLY—Source, artesian wells; system, direct into mains; pumping engines, dy cap 360,000 gals; 30 hydrants; pipe 7 miles, 8 to 4 in dia; waterworks owned by city; cost to construct \$35,000.

Washington, Wilkes Co., population 2,631; buildings, wood, 2 stories. Fire department—1 hook and ladder truck; membership 20, volunteers.

WATER SUPPLY—Source, spring.

Waycross, Ware Co., population 5,000; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 hose reels, hose, linen (rubber lined) 1,000 ft good; value of fire department equipment \$2,800; total membership 50, volunteers; bell alarm. Chairman of water com. H. W. Reed.

WATER SUPPLY—Source, artesian wells; system, gravity, pumping direct to standpipe; standpipe cap 280,000 gals; pumping engines, dy cap 180,000; 65 hydrants; pipe 8 3-4 miles, 12, 8 to 4 in dia; pressure 52 pounds; waterworks owned by city; cost to construct \$37,000; ann expenses \$1,000. Supt and engineer, H. W. Reed.

Waynesboro, Burke Co., population 2,200. No fire department; mercantile buildings, brick, 2 stories; private, pine wood, 2 stories; wooden roofs permitted; no fireworks ordinance.

WATER SUPPLY—Source, wells; system, pumping to standpipe; reservoir cap 15,000 gals; standpipe cap 1,000 gals; pumping engines, dy cap 40,000 gals; pipe 2 miles; pressure, domestic 14 pounds; waterworks owned by W. A. Wilkins; ann expenses \$1,000. Supt. K. A. Johnson.

West Point, Troupe Co., population 1,254; fire area 50 acres; mercantile buildings, brick, metal roofs, 1 and 2 stories; private, frame, 1 and 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, rubber good 800 ft, inferior 300 ft; value of fire department equipment \$1,500; value of buildings owned \$500; total membership 25, volunteers, paid 3. Chief engineer, W. G. Shaefer.

WATER SUPPLY—Source, river, 2 cisterns, cap of cisterns 25,000 and 35,000.

Places having a population of 1,000 and upward that have no fire protection: Dahlonaga, Lumpkin Co., population 1,000; Eatonton, Putnam Co., population 2,000; Jackson, Butts Co., population 1,500; Jonesboro, Clayton Co., population 1,000; Waynesville, Burke Co., population 834.

IDAHO.

Albion, Cassia Co., population 545; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. No organized department—hose, rubber good 500 ft, poor 40 ft; bell alarm.

WATER SUPPLY—Source, wells and streams; pumps.

Bellevue, Logan Co., population 802; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hose carriage, ladders and hooks; hose, cotton good 100 ft, rubber good 600 ft; value of fire department equipment \$2,000; total ann expenses of department \$250; all volunteers; bell alarm. Chief engineer, F. J. McGuinness.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 700 gals; hydrants 8; 7 1/2 miles, 2 1/2 to 12 in dia; pressure 60 pounds; works owned by company; original cost to construct \$16,000; expenses of construction to date \$17,600; ann expenses \$600. Supt. M. H. Williams.

Boise City, Ada Co., population 5,500; fire area 30 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages all kinds; hose, rubber good 2,000 ft, inferior 500 ft; value

of fire department equipment \$12,000; value of buildings occupied \$10,000; total ann expenses of department \$2,000; total membership 150, volunteers; Gamewell alarm; street boxes 10. Chief engineer, E. B. Tore.

WATER SUPPLY—Source, artesian wells; 2 hot wells and 6 cold wells; system, gravity; 3 reservoirs, cap of each 550,000, 100,000 and 10,000 gals; 55 hydrants; pipe 14 miles, 8 to 13 in dia; pressure 65 pounds; works owned by Artesian Hot and Cold Water Co; cost to construct \$157,000; cost to date \$225,000; ann expenses \$3,500. H. B. Eastman, mgr.

Coeur d' Alene, Kootenai Co., population 1,000; mercantile buildings, wood and brick, 1 story; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carts, 8 ladders, hooks, axes etc; hose, 500 ft rubber, 500 ft cotton good, 300 ft poor; value of equipment \$1,500; value of buildings occupied \$100; membership 20, volunteers. Chief, W. B. MacFarland.

WATER SUPPLY—Source, Lake Coeur d' Alene; system, pumping to reservoir and direct; reservoir cap 39,000 gals; pumping engines, dy cap 1,281,600 gals; 18 hydrants; pipe 2 1-4 miles, 3 to 6 in dia; pressure, domestic 35 to 40, fire 125 pounds; works owned by company; original cost to construct \$18,800; Supt. C. A. De Saussure. Co. will issue bonds at early date to improve works.

Eagle Rock, (See Idaho Falls).

Genesee, Latah Co., population 1,200; fire area 120 acres; mercantile buildings, brick and wood, 1½ and 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department. A good bucket brigade. W. J. Herman.

WATER SUPPLY—Source, wells. R. Pickering, village clerk.

Hailey, Alturo Co., population 1,073; fire area 100 acres; mercantile buildings, brick, 1 story; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, 3 hooks, 5 ladders; hose, cotton good 1,000 ft, inferior 1,000 ft; value fire department equipment \$1,000; total membership 20, volunteers; bell alarm. Chief engineer, C. H. Harvey.*

WATER SUPPLY—Source, creek 2½ miles away; system, hydraulic; reservoir cap 250,000 gals; 7 hydrants; pipe 2½ miles, 7 in dia; 10 valves; service pipe 3-4 in iron; pressure, domestic 25, fire 45 pounds; works owned by company; original cost to construct \$15,000; expenses of construction to date \$35,000; ann expenses \$1,500. Supt, W. S. Riley.

Idaho Falls, Bingham Co., population 1,000; fire area 1 sq mile; mercantile buildings, brick, stone and wood, 1 to 3 stories; private, stone and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 200 ft, cotton good 300 ft; value of fire department equipment \$300; value of buildings occupied \$200; total membership 18, volunteer; bell and whistle alarm. Chief engineer, W. W. Keefer.*

WATER SUPPLY—Source, river; system, pump to reservoir and direct into mains, caps 70,000 gals; Knowles pumping engines, dy cap 120,000 gals; 5 hydrants; pipe 2½ miles, 5 to 1½ in dia; 10 valves, Chapman; quality of water pure; pressure, domestic 10 to 20, fire 120 pounds; works owned by company; cost to construct \$10,000. Supt, W. H. B. Crown; mayor, S. F. Taylor; city clerk, Robt. R. Winn.*

Ketchum, Alturo Co., population 600; fire area 7 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood and brick, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, hose, rubber good 1,300 ft; value of fire department equipment \$3,000; total membership 23, volunteers; bell alarm. Chief engineer, William Greenhow.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 100,000 gals; 8 hydrants; pipe 3 miles, 4 to 8 in dia; works owned by Co., cost to construct \$12,000; ann expenses \$500; pressure 50 to 60 pounds. Supt, T. J. Lewis.

Lewiston, Nez Perce Co., population 1,500; mercantile buildings, brick, stone and wood, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carts, 1,000 ft of hose; value of fire department equipment \$3,000; total membership 100, all volunteers. Chief, C. F. Leland.

WATER SUPPLY—Source, Clearwater river; system, pump to reservoir and direct; 1,200,000 gals cap of reservoir; Knowles pumping engines, dy cap 1,500,000 gals; hydrants 17; pipe 7 miles, 4 to 12 in dia; pressure 97 pounds; works owned by company; cost to construct \$100,000. Supt, W. A. Smith.

Moscow, Latah Co., population 4,000; mercantile buildings, brick, stone and iron, 3 stories;

private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire pumps, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 2,500 ft; value of fire department equipment \$8,000; value of buildings occupied \$3,500; total ann expenses of department \$8,000; total membership 75, paid; bell and whistle alarm; total no of fire companies 3. Chief engineer, G. Weber.

WATER SUPPLY—Source, 5 wells; system, pumping to standpipe and direct; standpipe cap 92,800 gals; pumping engines, dy cap 1,152,000 gals; 42 hydrants; pipe 4 miles, 4, 6 and 8 in dia; pressure, domestic 70 to 80, fire 80 to 130 pounds; works owned by city; original cost to construct \$16,000, expenses of construction to date \$38,000; ann expenses \$5,000. Engineer, F. J. Lamb.

Mullan, Shoshone Co., population 818; buildings, brick and wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance.

WATER SUPPLY—Source, Milk creek; system, gravity; reservoir cap 24,000 gals; hydrants 7; pipe 8 and 5 in dia, 1½ miles; 14 valves; pressure 125 pounds; cost to construct \$13,000; ann expenses \$400. Supt, A. M. Strode.

Murray, Shoshone Co., population 450; fire area about 50 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,100 ft; value of fire department equipment \$2,100; value of buildings occupied \$150; total ann expenses of department \$50; total membership 30, all volunteers; bell alarm; 2 hose companies. Chief engineer, C. N. Ferguson.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 68,000 gals; 4 hydrants; pipe 1,000 ft, 6 to 4 in dia; pressure, domestic 152 ft, fire 152 ft; works owned by company; original cost to construct \$8,000; ann expenses \$200. Pres and supt, Adam Aulbach.

Pocatello, Bingham Co., population 4,000; fire area ½ sq mile; mercantile buildings, wood, brick and stone, 1 to 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft, rubber good 700 ft; 2 horses value \$300; value of fire department equipment \$4,000; value of buildings occupied \$3,250; total ann expenses of department \$1,000, for past year; 2 paid part time; volunteer members 45; Union Pacific fire alarm; street boxes 12. Chief engineer, A. Miller.

WATER SUPPLY—Source, streams, 10 miles S. W. of city; system, gravity; 2 reservoirs, cap 3,300,000 gals; hydrants 32; pipe 6½ miles, 4, 6 and 10 in dia; pressure, domestic 117, fire 117 pounds; works owned by company; original cost to construct \$100,000; expenses of construction to date \$85,000; ann expenses \$2,500; works leased by Caldwell & Caldwell.

Wardner, Shoshone Co., population 1,500; fire area 5 blocks; buildings, wood, 1 story; wooden roofs are permitted; fireworks ordinance. Fire department—2 hand hose carts; hose, rubber good 1,500 ft, cotton inferior 800 ft; value of fire department equipment \$2,500; value of buildings occupied \$400; membership 20, volunteers; bell alarm. Chief, Adam Goettge.

WATER SUPPLY—Source, creek and springs; system, gravity; reservoir cap 75,000 gals; 6 hydrants; pipe 2 miles, 8 in and under dia; 23 valves; pressure 51 to 83 pounds, fire same; works owned by Alex. Monk; original cost to construct \$15,000; expenses of construction to date \$20,000; ann expenses \$1,200. Supt, Jno. Van Allen.

ILLINOIS.

Abingdon, Knox Co., population 1,321; fire area 160 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs are permitted, fireworks ordinance. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 550 ft; value of fire department equipment \$1,750; value of buildings occupied \$1,950; total membership 40, volunteers; bell alarm. Chief engineer, James Bellwood.*

WATER SUPPLY—Source, wells and large cisterns.

Aledo, Mercer Co., population 2,000; mercantile buildings, brick, 2 stories; private, dwellings wood, 1½ stories; roofs, iron and tin. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 2,000 ft; total membership 30, volunteers; bell alarm. Chief engineer, B. F. Barnes.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; cap 45,000 gals; pumping engines dy cap 35,000 gals; hydrants 38; pipe 3 miles, 6 to 4 in dia; valves 12; pressure; domestic 20, fire 40 pounds; works owned by city; original

cost to construct \$221,000; expenses of construction to date \$27,000. Supt. Rob't Candor.

Alexia, Warren Co., population 582; mercantile buildings, brick and wood, 2 stories; private, same; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, portable tank; hose, rubber good 150 ft; value of fire department equipment \$400; value of buildings occupied \$200; total ann expenses of department \$70; total membership 30, volunteers; bell alarm. Chief engineer, A. Weed.*

WATER SUPPLY—Source, wells. Mayor, W. H. Brown.*

Alton, Madison Co., population 14,000; fire area 2,800 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 1 to 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 2,000 ft, inferior 300 ft, rubber good 2,500 ft, inferior 150 ft; 6 horses, value \$1,300; value of fire department equipment \$13,000; value of buildings occupied \$10,000; total ann expenses of department \$8,500; total membership 220, paid full time 6, paid part time 6; Gamewell alarm; street boxes 10; 3 fire companies. Chief engineer, A. McDonald.

WATER SUPPLY—Source, Mississippi river; system, pumping to standpipe; standpipe cap 700,000 gals; pumping engines dia cap 2,500,000 gals; hydrants 125; pipe 24½ miles, 4 to 8 in dia; 65 valves; service pipe, lead; pressure, domestic 95, fire 95 to 125 pounds; works owned by company. Supt. F. A. Taylor.

Amboy, Lee Co., population 2,257; fire area 20 acres; mercantile buildings, brick and stone, 2 stories; private, wood. Fire department—1 steam fire engine, 20 chemical extinguishers, 2 hose carriages; hose, rubber good 600 ft, inferior 400 ft; value of fire department equipment \$7,000; value of building occupied \$4,000; total ann expenses of department \$1,000; total membership 22, paid part time, 21; bell alarm. Chief engineer, W. A. Gurn.

WATER SUPPLY—Source, wells and hydrants, supplied from tanks of railroad company; a complete system with standpipe is contemplated. City clerk, M. Monahan.

Arcola, Douglas Co., population 2,100; fire area 600 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 12 chemical extinguishers, hooks, ladders and rubber buckets, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$1,000, value of buildings occupied \$1,800; total ann expenses of department \$50; total membership 30, volunteers. Chief engineer, M. T. Quirk.

WATER SUPPLY—Source, well; system, direct to mains back up to standpipe; standpipe cap 50,000 gals; 24 hydrants; pipe, 2½ miles, 6, 4, 4 in dia; pressure, domestic 45, fire 70 pounds; waterworks owned by city; cost to construct \$10,700; cost to date \$14,000; ann expenses \$500. Supt. W. Lough.

Atlanta, Logan Co., population 1,200; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. No fire department.*

WATER SUPPLY—Source, well 17½ ft deep; standpipe cap 46,000 gals; pumping engines, dy cap 25,000 gals; 2 hydrants; pipe 1½ miles, 5 to 1 in dia; 6 valves; quality of water soft; pressure 15 pounds; cost to construct \$10,000. Mayor, S. Noider; town clerk, T. Laden.

Augusta, Hancock Co., population 1,500; mercantile buildings, brick, 1 to 3 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance; bucket brigade. Fire department—ladders and buckets. Fire warden, John Stormee.

WATER SUPPLY—Source, wells.

Aurora, Kane Co., population 25,000; fire area 2 miles; mercantile buildings, brick and stone, 3 to 5 stories; private, brick and wood, 2½ to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 aerial truck, 1 hook and ladder truck, 4 hose car-

riages; hose, cotton good 7,000 ft; 11 horses, value \$2,200; value fire department equipment \$15,350; value of buildings occupied \$25,000; total membership 34, paid full time 12, paid part time 22; electric alarm; 53 boxes. Chief engineer, A. Schoeberlain.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe; standpipe cap 250,000 gals, pumping engines, dy cap 4,000,000 gals, Dean; 365 hydrants; pipe 37 miles, 4 to 16 in dia; lead service pipe; pressure, domestic 70, fire 110 pounds; works owned by city; original cost to construct \$167,000; expenses of construction to date \$280,000; ann expenses \$9,085.14. Supt. M. N. Corbett

Barry, Pike Co., population 2,000; fire area 180 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories. Fire department—1 hand engine, 1 hook and ladder truck 2 hose carriages; 2 chemical extinguishers; hose, cotton good 1,500 ft. Chief engineer, B. McConnell.

WATER SUPPLY—Source, artesian well; system, pumping to tank and direct; cap of tank 1,300 bbls, cap of pump per hour 500 bbls; pipe 1-2 mile, 8 to 4 in dia; cost to construct \$15,000; cost to date \$18,000; ann expenses \$500; 5 hydrants; pressure, domestic 25, fire 40 pounds; works owned by city. Supt. John Wassell.

Batavia, Kane Co., population 4,000; fire area 2,200 acres; mercantile buildings, wood and stone, 3 stories; private, same, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 20 chemical extinguishers, 1 hose carriage, siamese couplings; hose, rubber good 700 ft; whistle alarm.

WATER SUPPLY—Source, Fox river, wells and cisterns. Waterworks contemplated.

Beardstown, Cass Co., population 6,000; fire area 700 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, rubber good 1,500 ft, cotton good 200 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 40, volunteer; bell alarm. Chief engineer, M. J. Ratinau.

WATER SUPPLY—Source, wells; system, pumping to standpipe; reservoir cap 48,000 gals; standpipe cap 48,000 gals; dy cap 7,500,000 gals; pumping engines; 68 hydrants; pressure, domestic 65 pounds, fire 125 pounds; waterworks owned by city; original cost to construct \$38,000; expenses of construction to date \$2,000; ann expenses \$1,000; int on bonds \$1,000. Supt. F. W. Swerer. System is connected with C. B. & Q. R. R. water system which gives extra fire pressure.

Belleville, St. Clair Co., population 18,000; fire area 250 acres; mercantile buildings, brick and stone, 2 to 5 stories; private, brick, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, rubber good 3,500 ft, rubber inferior 1,000 ft; 9 horses, value \$1,400; value of fire department equipment \$30,000; value of buildings occupied \$18,000; total ann expenses of department \$7,500; total membership 17, paid full time 3, paid part time 12; telephone alarm. Chief engineer, Wm. Nebgen.

WATER SUPPLY—Source, Richland creek; system, pumping to standpipe and direct; reservoir cap 250,000,000 gals; standpipe cap 180,000 gals; dy cap 2,500,000 gals; Worthington pumping engines; 112 hydrants; pipe 15½ miles, 4 to 14 in dia; pressure, domestic 40, fire 140 pounds; works owned by company; original cost to construct \$175,000; expenses of construction to date \$215,000. Supt. M. T. Stookey.

Belvidere, Boone Co., includes west Belvidere population 4,500; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 2 stories. Fire department—1 hook and ladder truck, 2 hose carriages; hose, 1,200 ft cotton good, 600 rubber 17 volunteers. Chief engineer, F. H. Dixon.*

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe & direct; reservoir cap 72,000 gals; standpipe cap 42,000 gals; 2 pumping engines, dy cap 1,000,000 gals each, Deane; hydrants 77; pipe 8 miles, 4, 6, 8 and 10 in dia; service pipe galv iron; pressure, domestic 60 to 70, fire 120 pounds; works owned by city; original cost to con-

struct \$30,000; expenses of construction to date \$40,000; ann expenses \$2,100. Supt, E. E. Spooner.

Bement, Platt Co., population 1,400; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 1 1-2 to 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, hook and ladders and buckets; hose, rubber good 300 ft; value of fire department equipment \$800; value of buildings occupied \$500; volunteer dept. Chief engineer, Wilber Hammond.

WATER SUPPLY—Source, not reported.

Biandinsville, McDonough Co., population 1,693; fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. No organized department—1 chemical engine; 60 ft good rubber hose.

WATER SUPPLY—Source, 6 wells.

Bloomington, McLean Co., population 20,048; fire area 125 acres; mercantile buildings, brick, 3 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance, causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,400 ft, rubber inferior 500 ft; 11 horses, value 2,200; value of fire department equipment \$35,000; value of buildings occupied \$40,000; total ann expenses of department \$23,887.13; total membership 21, paid full time 21; Gamewell alarm; street boxes 37; 4 fire companies, no of engine companies 1; 1 hook and ladder company, 2 hose companies. Chief engineer, James O'Neal.

WATER SUPPLY—Source, 17 wells, 2 miles from city; system, pumping to standpipe and direct standpipe cap 75,000 gals; pumping engines, dy cap 3,000,000 gals, hydrants 255, pipe, 22 miles, 4 to 10 in dia, 150 valves, service pipe lead; pressure, domestic 75, fire 125 pounds; works owned by city; original cost to construct \$100,000; expenses of construction to date \$230,000; ann expenses \$10,000. Supt, H. W. Schmitt.

Blue Island, Cook Co., population 6,000; mercantile buildings, wood, 2 stories; private, same; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hook and ladder trucks, 2 hose carriages; hose, rubber good 800 ft; value of fire department equipment \$2,500; value of buildings occupied \$10,000; total membership 44, volunteer; bell alarm. Marshall, William Schreiber.*

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 48,000 gals; pumping engine, dy cap 1,350,000 gals; hydrants 100, pipe 9 miles, 10 and 6 in dia, 22 valves, pressure, domestic 25, fire 120 pounds; works owned by village; original cost to construct \$40,000; ann expenses \$6,000, including electric plant. Chairman of com, J. F. Rehm; supt, A. C. Boeber.*

Braceville, Grundy Co., population about 2,000; fire area 40 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 stationary direct pressure pumps, 1 chemical engine on wheels; 1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft, cotton good 300 ft; value of buildings occupied \$1,500; total ann expenses of department \$800; total membership 36, paid full time 1, volunteer members 35; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Fire Marshall, Robt. Milnes.

WATER SUPPLY—Source, well, 27 ft, deep; artesian well and spring.

Bradford, Starke Co., population 700; fire area 140 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 1/2 and 2 stories; fireworks ordinance. Fire department—ladders and buckets and 24 chemical extinguishers.

WATER SUPPLY—Source, wells 67 feet deep; cap of tank 3,000 gals. Clerk, Jasper Riterman.

Braidwood, Will Co., population 4641; buildings wood and brick; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carts; hose, rubber good 1,100 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000;

total membership 50, all volunteers; bell alarm. Chief engineer, D. B. Barr.

WATER SUPPLY—Source, cisterns; system, direct pumping.*

Buda, Bureau Co., population 1,000; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, cotton good 200 ft; value of fire department equipment \$800; value of buildings occupied \$1,000; total membership 36, all volunteers. Foreman; Chas. Markee.

WATER SUPPLY—Source, spring; system, pumping to tank, cap 30,000 gals; hydrants 4. Holly; quality of water good; cost to construct \$2,009. Pres, T. J. Lockwood.*

Bashnell, McDonough Co., population 3,325; fire area 80 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted outside fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,200; ann expenses of department \$450; total membership 30, paid part time; bell alarm. Chief engineer, J. A. Carson.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 40,000 gals; standpipe cap 40,000 gals; pumping engines, dy cap 5,500,000 gals; hydrants 25; pipe 2 1-4 miles, 4 to 8 in dia; 15 valves; taps 60; 1-4 in service pipe; pressure, domestic 40, fire 150 pounds; works owned by city; original cost to construct \$21,000; expenses of construction to date \$25,000; ann expenses \$1,200. Pres, J. B. Spicer; supt, Geo. Conley.*

Byron, Ogle Co., population 1,000; fire area 6 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—1 hand engine, 1 hose carriage, ladders and hooks; hose, cotton good 200 ft, inferior 100 ft. Chief, Benj. Dougherty.

WATER SUPPLY—Source, cisterns.*

Cabery, Ford Co., population 500; fire area 9 blocks; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 850 ft, rubber inferior 100 ft; value of fire department equipment \$9000; total ann expenses of department \$200; total membership 18; bell alarm. Chief engineer, Jacob Spies.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 1100 bbls; pumping engines dy cap 600 bbls, hydrants 14, pipe 3500 ft, 6 to 4 in dia; pressure, fire 40 pounds; works owned by city; original cost to construct \$8000; ann expenses \$200. Chairman of com, P. Whalen.

Calro, Alexander Co., population 12,000; fire area 1800 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—7 hand engines, 5 chemical extinguishers, 7 hose carriages, 1 hook and ladder truck, 1 hose wagon; hose, rubber good 3000 ft, poor 1500 ft, cotton good 500 ft; 3 horses value 500; value of fire department equipment \$14,000; value of buildings occupied \$8,000; total ann expenses of department by city \$4000; total membership 250, paid full time 6, part time 10, volunteers 244; bell alarm. Fire department for harbor service—3 transfer steamers, with 600 ft of hose, 2 steam tugs, with 400 ft of hose, can be used for fire on river fronts. Chief engineer, Wm. Schuta.

WATER SUPPLY—Source, river; system, pumping to standpipe and direct; cap of standpipe 280,000 gals, Gordon; cap of pump per dy 4,000,000 gals; 189 hydrants, pipe 17 miles, 6 to 20 in dia; pressure 65 pounds; Edison pressure recording gauge; works owned by company; cost to construct \$150,000; cost to date, \$200,000; ann expenses \$12,000. Mgr, Thos. W. Cannon.

Cambridge, Henry Co., population 1600; fire area 640 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs permitted, fireworks ordinance. Fire department—2 hand engines, 1 chemical engine on

wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft; value of fire department equipment \$3600; value of buildings occupied \$2000; total membership 50, volunteers; bell alarm, Chief engineer, E. A. Palmer.

WATER SUPPLY—Source, cisterns on each corner, capacity of each from 400 to 800 bbls, cost to construct \$5,000. Chairman of com. H. M. Weir.

Camp Point, Adams Co., population 1400; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hand engines; hose, linen good 350 ft, inferior 50 ft.

WATER SUPPLY—Source, wells and cisterns.*

Canton, Fulton Co., population 8000; fire area 960 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 to 2 stories. Fire department—1 steam fire engine, 1 double tank chemical engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 2700 ft, 6 hoses; value \$1200; value of fire department equipment \$8,565; value of buildings occupied \$3500; total ann expenses of department \$2252; total membership 17, volunteer members 17; electric bell and telephone alarm; 1 engine company, 1 hook and ladder company, 2 hose companies. Marshal, W. H. Shaw.

WATER SUPPLY—Source, artesian and surface wells; system, pumping to standpipe and direct; standpipe cap 30,000 gals; Hooker and Worthington pumping engines, dy cap 1,000,000 gals; hydrants 70, pipe 29,988 ft, 8 to 1 in dia; pressure, domestic 30 to 35, fire 40 to 150 pounds; works owned by city; original cost to construct \$18,203. 14; expenses of construction to date \$47,000; ann expenses \$2,000. Supt, W. B. Cain.

Carlinville, Macoupin Co., population 3700; fire area 20 acres; mercantile buildings, brick, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; 1 bucket wagon; hose, cotton good 400 ft, rubber inferior 400 ft; value of fire department equipment \$2000; value of buildings occupied \$500; total membership 30, volunteer members; bell alarm. Chief engineer, C. H. Burdort.

WATER SUPPLY—Source, creek, 1-4 mile from city; system, pumping to standpipe and direct; standpipe 120 ft by 10 ft; Deane pumping engines, dy cap 1,500,000 gals; hydrants 58, pipe 8 miles, 10 to 4 in dia; pressure, domestic 60, fire 100 to 120 pounds; works owned by company; original cost to construct \$50,000; ann expenses \$3000. Supt, Geo. Siegel.

Carlyle, Clinton Co., population 4,000; fire area 120 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 to 2 stories; no fireworks ordinance. Fire department—1 hand engine, 7 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 supply wagon; hose, cotton good 1,000 ft, rubber good 400 ft; value of buildings occupied \$5,000; total membership 60, paid full time 20, remainder volunteers; electric fire alarm; 3 fire companies. Chief, Henry Bender.

WATER SUPPLY—Source, Kaskaskia river; system, pumping to standpipe; standpipe cap 70,000 gals; dy cap 1,000,000 gals, Deane pumping engines; 43 hydrants, Ludlow; pipe 4 miles, 4, 6, 8, and 10 in dia, Shickel Harrison & Co; 20 valves, Ludlow; 2 meters; taps 75; service pipe galv iron; pressure, domestic 60, fire 150 to 200 pounds; works owned by company; original cost to construct \$30,000; expenses of construction to date \$35,000; ann expenses \$1,500. Pres, J. J. Randall.

Carroll, White Co., population 3000; fire area 700 acres; mercantile buildings, brick and wood, 2 stories; private, same. Fire department—2 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, rubber 120 ft, cotton 1,450, value of fire department equipment \$1,600; value of buildings occupied \$600; total membership 70, volunteers; 1 night watchman paid by city; bell alarm. Chief engineer, John L. Griffin.

WATER SUPPLY—Source, wells and cisterns.

Carrollton, Green Co., population 2,300; fire area 240 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance, fires investigated. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good

800 ft, inferior rubber 200 ft; 2 horses; value of fire department equipment \$2,000; total ann expenses \$400; total membership 40, paid part time; whistle and bell alarm. Chief engineer, H. S. Moore.*

WATER SUPPLY—Source, artesian well; system, pump to reservoir, thence to tank; reservoir cap 58,000 gals; standpipe cap 28,000 gals; pumping engines; dy cap 1,144,000 gals; hydrants 46 pipe 4 miles, 6 and 8 in dia; 14 valves, pressure 60 pounds; works owned by city; cost to construct \$21,800; ann expenses \$1,200. Supt, Geo. W. Lipscomb.*

Carthage, Hancock Co., population 2,500; fire area 8 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 700 ft, cotton 800 ft; value of fire department equipment \$2,450; value of buildings occupied \$400; total ann expenses of department \$100; total membership 35, volunteers; bell alarm. Chief engineer, John Elder.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir and direct; reservoir cap 2,000 bbls; dy cap 300,000 gals; Knowles pump-1-1/2 engines; hydrants 24; pipe wood, 2 1-4 miles, 3 to 6 in dia; pressure, domestic 35, fire 35 to 160 pounds; works owned by city; original cost to construct \$16,000; expenses of construction to date \$21,000; ann expenses \$1,000. Supt, R. L. Casburn.

Centralia, Marion Co., population 4,763; fire area 60 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—1 chemical engine on wheels, 6 dozen chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton inferior 400 ft, rubber good 700 ft, linen good 700 ft; value of fire department equipment \$1,800; value of buildings occupied \$800; members 20, volunteers; bell and whistle alarm. Chief engineer, A. L. Reinhardt.*

WATER SUPPLY—System, direct pumping; hydrants 7; pipe 630 ft, 4 in dia; pressure 150 pounds. Supt, D. Oxley.*

Cerro Gordo, Platt Co., population 939; mercantile buildings, brick and wood, 1 and 2 stories; private same. Fire department—1 hand engine, 6 chemical extinguishers, 8 ladders; hose, rubber good 300 ft; value of fire department equipment \$800; total membership 40, volunteers. Chief engineer, J. M. Harlan.*

WATER SUPPLY—Source, 1 cistern, 3 wells.*

Champaign, Champaign Co., population 8,000; fire area 12 acres; mercantile buildings, brick, 2 stories; private, frame, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 1 hose carriage, 1 supply wagon; hose, cotton good 2,100 ft, poor 150 ft, rubber 200 ft; 2 horses, value \$400; value of fire department equipment \$5,000; value of buildings occupied \$12,000; total ann expenses of department \$2,000; total membership 23, paid fulltime 1, volunteer members 22; Gaynor electric alarm; 1 hook and ladder company, 1 hose company. Fire marshal, John Boyle.

WATER SUPPLY—Source, tubular wells; system, pump to reservoir and direct into mains; reservoir cap 250,000 gals; dy cap 2,775,000 gals, Gordon, Maxwell, Blake, Cook & Worthington; hydrants 112; pipe 15 1/2 miles, 4 to 10 in dia; pressure, domestic 45, fire 90 to 150 pounds; works owned by company; cost to construct \$135,000; cost to date \$150,000; ann expenses \$6,000. Supt, Clint C. Rush.

Chandlerville, Cass Co., population 1,000; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—ladders and buckets.*

WATER SUPPLY—Source, wells and cisterns.*

Charleston, Coles Co., population 7,000; fire area 960 acres; mercantile buildings, brick and stone, 2 to 3 stories; private, brick and wood; wooden roofs not permitted within one block of square; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann expenses of department \$600;

total membership 80; volunteers. Chief engineer and chairman, Wm. A. French.

WATER SUPPLY—Source, Embarras river, 3 miles distant; system, pumping direct; dy cap 2,500,000 gals, Deane pumping engines; hydrants 60; pipe 14 miles, 4 to 12 in dia; service pipe lead and galv iron; pressure, domestic 80, fire 30 pounds; works owned by city; original cost to construct \$40,000; ann expenses \$4,000. Supt, F. Frammell.

Chatsworth, Livingston Co., population 827; fire area 1440 acres; mercantile buildings, wood, 1 1-2 stories; private, wood, 1 1-2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; rubber good 800 ft; value of fire department equipment \$5,100; value of buildings occupied \$2,000; total ann expenses of department \$100; total membership 75, volunteers. Chief engineer, Henry H. Gams.

WATER SUPPLY—System, pumping to tank 106 ft high; hydrants 16; pipe, 10 blocks, 8 and 6 in dia; water works owned by city; cost to construct \$6,000.

Chenow, McLean Co., population 1,350; fire area 1 sq miles; mercantile buildings, brick, 2 and 2½ stories; private, wood, 1 and 2 stories; wooden roofs are not permitted, in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 400 ft; gong fire alarm.

WATER SUPPLY—Source, wells; system, pumped by windmill into tank; cap of tank 10,000 gals; quality of water soft; water works owned by city; cost to construct \$2500. Mayor, Warren M. Fales, Jr; town clerk, C. E. Travia.

Chester, Randolph Co., population 3,000; buildings, brick and wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; 3 doz. chemical extinguishers and buckets. T. Ragsdale.

WATER SUPPLY—Source, Kaskaskia river.

Chicago, Cook Co., population 1,600,000; fire area 186 14 sq miles; mercantile buildings, brick, iron and tile, 4 to 20 stories; private, brick, 2 and 4 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—80 steam fire engines, 2 hand engines, 23 chemical engines on wheels, 75 chemical extinguishers, 20 hook and ladder trucks, 9 aerial trucks, 100 hose carriages, all kinds; 1 water tower, 4 fire boats; hose, cotton good 108,000 ft, inferior 10,000 ft, rubber good 36,000 ft, inferior 9,000 ft; 408 horses, value \$70,000; value of fire department equipment \$1,378,000, including fire alarm \$557,000; value of buildings occupied \$1,034,375; total ann expenses of department \$1,542,878; total membership 1,087, paid full time; volunteer members 100; Gamewell alarm; 2,148 street boxes; 73 engine companies, 26 hook and ladder companies, 6 hose companies. Chief engineer, Denis J. Swenie.

WATER SUPPLY—Source, Lake Michigan; 4 tunnels 2 and 4 miles each; system, pumping to standpipes and direct; standpipes 5 by 150 and 6 to 160 ft; dy cap 241,000,000 gals; pumping engines, Gaskill, E. P. Ellis and Worthington; hydrants 14,815; pipe 1,466 miles, 4 to 48 in dia; pressure, domestic 25, fire 33 pounds; works owned by city; expenses of construction to date \$19,061,268; ann expenses \$2,118,700. Fire Patrol—7 Wagons, 6 stations, 1 double tank chemical, engine 982 covers, 21 horses, 52 men. Supt. E. T. Shepherd.

Chillicothe, Peoria Co., population 3,000; fire area 4 blocks; mercantile buildings, brick and iron, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 2 chemical extinguishers, 2 hook and ladder trucks; hose, rubber good 1,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$4,000; total membership 26; bell alarm; 1 hose company. Chief engineer, P. S. Marten.*

WATER SUPPLY—Source, well; system, pumping direct; dy cap 100,000 gals; pumping engines; 40 hydrants; pipe 4 miles, 4, 6, 8 in dia; 8 valves; 105 taps; galv iron service pipe; pressure, domestic 65, fire 100 pounds; works owned by company; original cost to construct \$35,000; ann expenses \$3,000. Supt. E. R. Lucas.*

Clayton, Adams Co., population 1,200; fire area 1 sq mile; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden

roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 12 chemical extinguishers; hose, rubber good 300 ft; value of fire department equipment \$1,400; total ann expenses of department \$130; volunteer dept; bell alarm. Foreman, E. E. Smith.

WATER SUPPLY—Source, wells and cisterns.

Clinton, DeWitt Co., population 4,000; fire area 20 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 250 ft, rubber good 1,200 ft, linen good 300 ft; value of fire department equipment \$3,500; value of buildings occupied \$4,000; total ann expenses of department \$400; total membership 48, paid part time; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Joseph E. Moffett.

WATER SUPPLY—Source, wells; system, pumping direct; reservoir cap 800,000 gals; dy cap 750,000 gals, Deane pumping engines, 65 hydrants; pipe 7 1-4 miles, 4 to 10 in dia; galv iron service pipe; pressure, domestic 50, fire 110 pounds; works owned by city; original cost to construct \$37,000; expenses of construction to date \$42,000; ann expenses \$1,800. Supt, J. E. Moffett.

Coal City, Grundy Co., population 5,000; fire area 640 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, cotton good 400 ft; value of fire department equipment \$1,800; value of buildings occupied \$2,000; total ann expenses of department \$550; total membership 46, volunteers; bell alarm. Chief engineer, Robt. Wharrie.

WATER SUPPLY—Source, 17 wells, 1 artesian well, throws 75 gals per minute. Will pipe town this summer. Supt, R. Wharrie.

Collinsville, Madison Co., population 5,000; fire area 700 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hand engines, private chemical extinguishers in 5 stores, 2 hose carriages; hose, cotton good 1,000 ft, inferior 200 ft, rubber good 100 ft; value of fire department equipment \$4,000; value of buildings occupied \$600; total ann expenses of department \$650; total membership 50, volunteers; bell alarm. Chief engineer, Aug. Kuhlbeck. Gamewell alarm to be put in this year.

WATER SUPPLY—Source, artesian well 508 ft deep; system, pumping to standpipe, reservoir and direct; reservoir cap 225,000 gals; standpipe cap 70,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 40 hydrants; pipe 3½ miles, 8 to 4 in dia; pressure, domestic 53, fire 80 pounds; water works owned by city; cost to construct \$22,000. Supt, J. L. R. Wadsworth, M. D.

Danville, Vermilion Co., population 15,000; fire area 60 acres; mercantile buildings, brick and iron; 2 to 4 stories; private, brick, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages, all kinds; 5 horses, value \$1,000; value of fire department equipment \$9,000; value of buildings occupied \$12,000; total ann expenses of department \$16,000; total membership 9; new Gaynor fire alarm; no of street boxes 21. Chief engineer, B. Buttingham.

Decatur, Macon Co., population 22,000; fire area 2,500 acres; mercantile buildings, stone and brick, 3 and 5 stories; private, brick and wood, 1 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical engines on wheels, 1 hook and ladder truck, 2 hose wagons; hose, cotton good 3,150 ft, cotton inferior 800 ft; 14 horses, value \$2,800; value of fire department equipment \$6,650; value of buildings occupied \$10,000; total ann expenses of department \$17,000; total membership 16, paid full time 15, paid part time 1; telephone alarm; total no of fire companies 5, no of engine companies 2, 1 hook and ladder company, 2 hose companies. Chief engineer, C. W. Devore; fire commissioners, W. B. Chambers and C. W. Devore.

WATER SUPPLY—Source, Sangamon river 1 mile

distant; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 200 hydrants; pipe 26 miles, 4, 6, 8, 12, 16 in dia; 260 valves; service pipe galv iron; pressure, domestic 40, fire 90 pounds; works owned by city; expenses of construction to date \$200,000; ann expenses \$20,000. City civil engineer, S. Burgess.

DeKalb, DeKalb Co., population 2,579; mercantile buildings, brick and wood, 2 stories; private wood, 2 stories; wooden roofs not permitted; no wooden buildings within 50 acres area; fireworks ordinance; causes of fire investigated. Fire department—10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1600 ft, inferior 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,200; total ann expenses of department \$1,500; total membership 40; paid part time; electric bell alarm; 9 street boxes. Fire marshal, D.D. Brown.*

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe and direct; standpipe cap 242,000 gals; dy cap 85,000 gals; pumping engines; hydrants 96; pipe 7½ miles, 6 to 4 in dia; taps 330; service pipe lead; pressure, domestic 45, fire 80 pounds; works owned by city; expenses of construction to date \$70,000; ann expenses \$2,813. Chairman of com, John H. Lewis.*

Delavan, Tazewell Co., population 1,176; mercantile buildings, brick and wood, 2 stories; private, same; metal roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck; value of fire department equipment \$2,000; value of buildings occupied \$400; membership 30, volunteers. Chief engineers, C. F. Few.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 1,000 bbl, dy cap 4,600 bbl; pumping engines; hydrants 25; pipe 24 miles, 4 to 8 in dia; 15 valves, taps 100; pressure, domestic 30 to 40, fire 30 to 40 pounds; works owned by city; original cost to construct \$7,000; expenses of construction to date \$11,000; ann expenses \$1,000. Supt, O. C. Hall.*

Des Plaines, Cook Co., population 2,500; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ to 2 stories; wooden roofs are permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, hose, rubber good 1,000 ft; 2 horses, value 300; value of fire department equipment \$1,000; value of buildings occupied \$10,000; total membership 35, volunteers. Chief, Robert Caine.

WATER SUPPLY—Wells and river; are boring an artesian well.

Dixon, Lee Co., population about 7,500; fire area 200 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—3 hook and ladder trucks, 4 hose carriages, all kinds; 2,300 ft, good rubber hose, 400 ft; value of fire department equipment \$8,000; value of buildings occupied \$2,000; total ann expenses of department \$400; total membership 80; electric alarm. Chief engineer, A. J. Graff.

WATER SUPPLY—Source 3 artesian wells; system, pump to standpipe and reservoir; reservoir cap 500,000; cap 270,000 gals; Gordon and Maxwell pumping engine, dy cap 1,500,000 gals; 96 hydrants; pipe 11 miles, 4 to 16 in dia; 27 valves; 5 Hersey meters; pressure, domestic 30 to 65 pounds, fire 60 to 200; works owned by company; cost to construct \$20,000; ann expenses \$4,000. Supt, J. Wasley.

Dundee, Kane Co., population 1,500; fire area 75 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, rubber good 500 ft, cotton good 500 ft; 2 horses, value \$3,000; value of fire department equipment \$1,000; value of buildings occupied \$400; total membership 18, paid full time 12, paid part time 6; bell alarm. Chief engineer, F. B. Hitchcock.*

WATER SUPPLY—Source, wells.*

Du Quoin, Perry Co., population 4,500; fire area 1,200 acres; mercantile buildings, brick, stone and wood, 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton 300 ft, inferior 150 ft; value of fire department equipment \$800; total ann expenses of department \$60; total membership 30, all volunteers; bell alarm; 1 engine com-

pany, 1 hook and ladder company, 1 hose company. Chief engineer, Frank Hall.

WATER SUPPLY—Source, wells. Civil engineer, W. S. Hawks.

Dwight, Livingston Co., population 2,000; fire area 5,000 acres; mercantile buildings, stone and brick in fire limits, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 650 ft, cotton poor 350 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 30, volunteers; whistle alarm; total no of fire companies 2, 1 hook and ladder company, 1 hose company. Chief, V. S. Wright.

WATER SUPPLY—Source, tubular well 127 ft deep; system, pumping to reservoir near pump house; reservoir cap 64,627 gals; 12 hydrants, pipe 1 1-2 miles, 4, 6 and 8 in dia; pressure, domestic 40, fire 125 to 140 pounds; waterworks owned by city. Supt, Dwight P. Davis.

East Dubuque, Jo Daviess Co., population 1,069; fire area 200 acres; mercantile buildings, brick, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 300 ft, linen good 1,400 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,200; bell alarm; membership 32, volunteers. Foreman, John Kasa.

WATER SUPPLY—Source, artesian well; system, pump to reservoir and direct; pumping engines, dy cap 70,000 gals; 10 hydrants, Ludlow; pipe 1½ miles, 6 in dia; 7 gates; pressure 30 to 70 pounds; cost to construct \$9,000; ann expenses \$250. Mayor, M. P. Mutton; city clerk, Geo. Rowell.*

East St. Louis, St. Clair Co., population 25,000; fire area 3 sq miles; mercantile buildings, brick and wood, 1 and 2 stories; private, same; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 2,800 ft; 7 horses, value \$1,250; value of fire department equipment \$10,000; value of buildings occupied \$25,000; total membership 10, paid full time 10; Gamewell alarm; 23 street boxes. Chief engineer, Mike Walsh.

WATER SUPPLY—Source, Mississippi river; system, pumping to standpipe and direct; reservoir cap 10,000,000 gals; pumping engines, dy cap 24,000,000 gals; 287 hydrants; pipe 41 miles, 30 to 4 in dia; 204 valves; pressure, domestic 60, fire 80 to 125 pounds; waterworks owned by city. Supt, F. M. Homer.

Edwardsville, Madison Co., population 4,800; fire area 9 miles sq; buildings, brick and wood, 1 and 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of equipment \$3,000; value of buildings \$4,000; expenses \$200; total membership 70, volunteers. Chief engineer, D. Hents; chairman fire com, J. Dettarding.

WATER SUPPLY—Source, wells and cisterns; are expecting a proposition for franchise of Water Co.

Effingham, Effingham Co., population 4,000; fire area 400 acres; mercantile buildings, wood and brick, 1 to 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber inferior 400 ft, cotton good 600 ft; value of fire department equipment \$800; value of buildings occupied \$300; total ann expenses of department \$600; membership 80, volunteers; bell alarm; 1 engine company, 1 hook and ladder company. Chief engineer, H. H. Bergfeld.

WATER SUPPLY—Source, 13 cisterns.

Elgin, Kane Co., population 23,000; fire area 350 acres, mercantile buildings, brick and stone, 2 to 5 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 2 hand carts, with 750 ft of rubber hose; hose, rubber good 1,500 ft, inferior 1,600 ft; 9 horses, value \$1,000; value of fire department equipment \$10,000; value

of buildings occupied \$12,000; total ann expenses of department \$15,358; total membership 24, paid full time 15, paid part time 9; Gamewell alarm; 25 street boxes; 4 fire companies; 1 chemical engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, Theo. Schroeder.

WATER SUPPLY—Source, Fox river; system, pumping to standpipe, standpipe cap 510,000 gals; 2 pumping engines, dy cap 3,000,000 gals; 317 hydrants; pipe cast iron, 32 miles, 6 to 24 in dia; pressure 80 to 100, fire 100 to 130 pounds; works owned by city; original cost to construct \$173,000; expenses of construction to date \$240,000; ann expenses \$7,500. Supt. H. K. Parker.

Elmhurst, Du Page Co., population 1,500; fire area 1 sq mile; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,650 ft; 4 horses; value of fire department equipment \$2,298; value of buildings occupied \$2,298; total membership 22, volunteers; bell alarm. Marshall Overkamp.

WATER SUPPLY—Source, Mammoth spring 3 miles distant; system, pumping to standpipe; standpipe cap 50,000 gals; pumping engines, dy cap 500,000 gals; 22 hydrants; pipe 7 miles, 4 to 5 in dia; pressure, domestic 40 to 60, fire 100 pounds; works owned by company; cost to construct \$25,000; cost to date \$45,000; ann expenses \$3,000. Supt and secy, John T. Emery.

Elmwood, Peoria Co., population 1,548; fire area 600 acres; mercantile buildings, brick, 2 stories; private, wood. Fire department—2 hand engines, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,500; total membership 60, volunteers; bell alarm. Foreman, E. F. Douglas.*

WATER SUPPLY—Source, 10 cisterns.*

El Paso, Woodford Co., population 1,500; fire area 4 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 800 ft, rubber inferior 200 ft, cotton good 500 ft; horses, value \$1,000; value of fire department equipment \$8,000; value of buildings occupied \$900; ann expenses of department \$180; membership 28, volunteers; bell alarm. Chief engineer, O. J. Leunon.

WATER SUPPLY—Source, wells; system, pump to standpipe and direct; cap 37,000 gals; pumping engines, dy cap 400,000 gals; 20 hydrants; pipe 2½ miles, 6 in dia; 4 gates; quality of water good; pressure 25 to 60 pounds; cost to construct \$12,000; ann expenses \$300. Supt, E. S. Paul.*

Eureka, Woodford Co., population 1,481; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; 25 volunteers; bell alarm. Chief engineer, F. M. Hoyt.

WATER SUPPLY—Source, wells; system, pump to tank and direct; cap 30,100 gals; Worthington pumping engines, dy cap 200,000 gals; 9 hydrants; pipe 4,500 ft, 4 in dia; quality of water good; pressure 40 pounds; cost to construct \$6,500; int on bonds 6 per cent. Supt, F. M. Hoyt.

Evanston, Cook Co., population 20,000; mercantile buildings, brick, 4 stories; private, wood, 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 fire patrol wagons; hose, cotton good 3,000 ft, rubber good 500 ft; 7 horses, value \$1,000; value of fire department equipment \$9,500; value of buildings occupied \$8,000; ann expenses of department \$6,000; total membership 7, paid full time; electric bell alarm. Chief engineer, Samuel Harrison.

WATER SUPPLY—Source, Lake Michigan; system, pumping direct; pumping engines, dy cap 7,000,000 gals; 240 hydrants; pipe 50 miles, 4 to 18 in dia; 110 valves; 3,000 taps; lead service pipe; pressure, domestic 40, fire 80 pounds; works owned by city; original cost to construct \$120,000; ann expenses \$6,400. Supt, S. B. Peeney.*

Fairbury, Livingston Co., population 3,100; fire area 160 acres; mercantile buildings, brick and oak, 2 and 3 stories; private, wood, 2 stories;

wooden roofs not permitted; fireworks ordinance. Fire department—several ladders, 2 hose carriages; hose, cotton good 1,300 ft, rubber poor 400 ft, inferior 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$4,000; total ann expenses of department \$450; total membership 14, paid full time; bell alarm. Chief engineer, Fred. Baird.

WATER SUPPLY—Source not stated; system, pump to tank; cap of tank 60,000 gals; dy cap 57,000 gals; 12 fire plugs; pipe 1 mile, 8 in dia; pressure 75, pump gives 175 pounds. Supt, Amos Brown.*

Fairfield, Wayne Co., population 2,500; fire area 40 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories. Fire department—1 force pump, 1 hook and ladder truck, 100 buckets. Chief engineer, A. B. Rider.

WATER SUPPLY—Source, wells and cisterns. (Talk of voting on waterworks.)

Flannigan, Livingston Co., population 384; fire area 1 block; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 300 ft; value of fire department equipment \$250; value of buildings occupied \$325; bell alarm. Chairman of fire and water com, W. S. Shearer.*

WATER SUPPLY—Source, artesian well; system, pumping to standpipe; standpipe cap 32,000 gals, dy cap 100,000 gals, Fairbanks Morse Co. pumping engines; 10 hydrants; pipe ½ miles, 8 and 6 in dia; pressure, domestic 40, fire 45 pounds; works owned by city; original cost to construct \$3,500. Supt, J. Hearen.

Flora, Clay Co., population 1,695; fire area 160 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 40 buckets; value of fire department equipment \$150; total membership 20; bell alarm. Chief engineer, T. S. LeBers.*

WATER SUPPLY—Source, wells and cisterns.

Forrest, Livingston Co., population estimated 1,400; mercantile buildings, iron, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, hooks and poles; hose, cotton good 400 ft, inferior 100 ft, rubber good 200 ft, inferior 200 ft; value of fire department equipment \$600; value of buildings occupied \$100; total membership 48, volunteers; total ann expenses of department \$25. Chief engineer, J. S. Francis.

WATER SUPPLY—Source, wells; pumped by no. 5 Howe engine.

Freeburgh, St. Clair Co., population 1,100; fire area 60 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, good 300 ft, poor 300 ft; value of fire department equipment \$900; value of buildings \$600; total membership 65, volunteers; bell alarm. Chief engineer, Phil. Ellinger.

WATER SUPPLY—Source, wells, cisterns and pond reservoir.

Freeport, Stevenson Co., population 10,189; fire area 3,200 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 800 ft, rubber good 2,800 ft, inferior 900 ft; 5 horses, value \$700; value of fire department equipment \$3,000; value of buildings occupied \$4,000; total ann expenses of department \$5,000; total membership 11, paid full time 11; Gamewell alarm; no. of street boxes 15. Chief engineer, John F. Rodemeyer.*

WATER SUPPLY—Source, 18 artesian wells; system, pumping to standpipe; standpipe cap 115,500 gals; dy cap 3,000,000 gals; pumping engines; 120 hydrants; pipe 17 8-10 miles, 4 to 6 in to 80 dia; service pipe galv iron and lead; pressure 60 pounds; works owned by company; original cost to construct \$210,000. Supt, Owen F. Smith.

Fulton, Whiteside Co., population 2,090; mercantile buildings, brick and wood 2 stories; private, same. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft;

value of fire department equipment \$1,800; total membership 55, volunteers. Chief engineer, L. B. Peters.*

WATER SUPPLY—Source, artesian wells; system pumping to reservoir; reservoir cap 118,000 gals; pumping engines, dy cap 432,000 gals; hydrants 23, Ludlow; pipe 2½ miles, 4 and 8 in dia; 7 valves; pressure, domestic 35, fire 160 pounds; works owned by city; original cost to construct \$15,000, ann expenses \$1,000; lot on bonds 5 per cent; Supt, James Pannell.

Galena, Jo Davies Co., population 7,000; mercantile buildings, brick and wood, 2 to 5 stories; private, brick and wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; cause of fire investigated. Fire department—2 hand engines, 2 hook and ladder trucks, 5 hose carriages; hose, cotton good 700 ft, rubber good 2,500 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses of department \$1,500; membership 150; volunteers; bell alarm; 1 street box. Chief engineer, Timothy Grady.

WATER SUPPLY—Source, artesian well 1,500 ft deep; system, pumping to standpipe; standpipe cap 125,000 gals; dy cap 2,500,000 gals, Smedley Mfg. Co.; 75 hydrants; pipe 6 miles, 10 to 4 in dia; pressure, domestic 95, fire 95 to 125 pounds; works owned by company; cost to construct \$88,000; cost to date \$75,000. Secy and mgr, Geo. R. Melsville.

Galesburg, Knox Co., population 20,000; fire area 1,020 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 hose carriages; hose, rubber good 2,050 ft, rubber inferior 450 ft; 5 hoses, value \$800; value of fire department equipment \$7,000; value of buildings occupied \$1,000; total ann expenses of department 700; total membership 10, paid full time 8, paid part time 2; telephone alarm; 1 engine company, 1 hose company. Chief engineer, A. D. Kearney.

WATER SUPPLY—Source, well; system, pumping direct; reservoir cap 4,000,000 gals; pumping engines, dy cap 3,000,000 gals, Holly; hydrants 250; pipe 28 miles, 4 to 18 in dia; pressure, domestic 70, fire 100 to 125 pounds; works owned by city; cost to construct \$153,000; ann expenses \$6,000. Supt, Jas. Dick.

Galva, Henry Co., population 3,050; fire area 1,280 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 1 tank to fill chemical engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hand engine; hose, rubber good 900 ft; value of fire department equipment \$3,275; value of buildings occupied \$3,500; total ann expenses of department \$800; total membership 30, volunteers; bell alarm. Chief engineer, J. P. Gibbs.

WATER SUPPLY—Source, wells and cistern. Mayor, E. W. Houghton; village clerk, H. D. Nott.

Geneseo, Henry Co., population 3,335; fire area 1,500 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft; value of fire department equipment \$2,000; value of buildings occupied \$4,000; total ann expenses of department \$600; membership 68, volunteer; 2 electric bell alarms; 1 hook and ladder company, 2 hose companies. Chief engineer, C. J. Limie.

WATER SUPPLY—Source, artesian wells; system, pumping direct; reservoir cap 50,000 gals; pumping engines, dy cap 380,000 gals; 55 hydrants; pressure, domestic 12, fire 100 pounds; cost to construct \$30,000; ann expenses \$1,900. Chairman of com, John Larson.*

Gibson City, Ford Co., population 1,803; fire area 400 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; cause of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 chemical extinguisher; 300 ft good cotton hose; value of fire department equipment \$700; value of buildings occupied \$1,200; total membership 20, volunteers. Chief engineer, E. H. Harry.

WATER SUPPLY—Source, wells, 35 ft; system, pumping direct into fire engine; 3 hydrants; quality of water good. (Waterworks contemplated).

Girard, Macoupin Co., population 1,524; mercantile buildings, brick, gravel and tin roofs, 2 stories; private, wood, 1 and 2 stories. Lewis O. Deek.

WATER SUPPLY—Source, wells. The city council is considering proposition to put in works; probability they will accept it.

Goleonda, Pope Co., population 1,200; mercantile buildings, brick and wood; private, same. Fire department—1 hook and ladder truck, buckets, 4 hooks, 8 ladders and 4 hand pumps; value of equipment \$100; volunteer members; bell alarm.

WATER SUPPLY—Private cisterns and Ohio river. Town clerk, C. E. Hughes.

Grayville, White Co., population 2,500; fire area 600 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; 500 ft poor rubber hose; 300 ft good cotton; value of fire department equipment \$1,000; value of buildings \$251; membership 24, paid part time 5. Chief, J. J. Catlett.

WATER SUPPLY—Source, wells.

Greenfield, Green Co., population 1,350; fire area 5 acres; mercantile buildings, brick and iron, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels; hose, rubber good 250 ft; total membership 20, volunteers. Chief, J. D. Shephard.*

WATER SUPPLY—Source, wells and cisterns.*

Greenview, Menard Co., population 1,100; fire area 200 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 400 ft; total membership 14, volunteers; whistle fire alarm; 1 hose company. Chief engineer, John Famey.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; reservoir cap 6,000 gals, dy cap 100,000 gals; pumping engines; hydrants 8; pipe 6 in dia; taps 18; pressure, domestic 40, fire 60 pounds; works owned by city; original cost to construct \$6,000. Chairman of com, A. J. Reed.*

Griggsville, Pike Co., population 1,400; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber inferior 50 ft, linen inferior 200 ft; membership 27, volunteer; bell alarm. Chief engineer, Guff Ehrkott.*

WATER SUPPLY—Source, cisterns.

Hanover, Jo Davies Co., population 1,100; fire area 25 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 7 extinguishers, 1 hose carriage; hose, cotton good 300 ft; value of fire department equipment \$1,000; expenses for past year \$150; total membership 28, paid part time 3, rest volunteers; bell alarm. Chief engineer, C. Fisher.

WATER SUPPLY—Rivers, wells and cisterns.

Harrisburg, Saline Co., population 2,500; fire area 200 acres; mercantile buildings, brick, metal roof, 2 stories; wooden roofs not permitted in fire limits; private dwellings, wood, 1 and 2 stories; fireworks ordinance; fire investigated. Fire department—ladders, hooks, etc.; no organized department.

WATER SUPPLY—Source, wells and cisterns.

Harvard, McHenry Co., population 2,500; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; cause of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; 1 hose and supply wagon; hose, rubber good 600 ft, cotton good 1,350 ft, leather 100 ft; value of fire department equipment \$4,000; value of buildings occupied \$5,000; total ann expenses of department \$100; total membership 100, volunteer; bell alarm. Chief engineer, H. H. Megran.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe; reservoir cap 48,000 gals, standpipe cap 92,000 gals, dy cap 500,000 gals, Smith Valle & Co. pumping engines; hydrants 35;

pipe 3½ miles, 4, 6 and 8, in dia; service pipe lead and galv iron; works owned by city; original cost to construct \$20,000; expenses of construction to date \$21,000. Supt, P. E. Saunders.

Havana, Mason Co., population 3,000; fire area 8 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, 100 ft poor; value of fire department equipment \$3,200; value of buildings occupied \$800; ann expenses \$800; total membership 80, 2 paid part time, remainder volunteers; bell alarm. Jas. McHose.*

WATER SUPPLY—Source, 6 wells; system, pump to standpipe; cap 50,000 gals; pumping engines, dy cap 2,500,000 gals; hydrants 22; pipe 3½ miles, 4, 6 and 8 in dia; 14 valves; pressure 55 to 60 pounds; works owned by city; cost to construct \$27,000; ann expenses 12,000. Supt, Frank Smith.*

Henry, Marshall Co., population 1,512. Fire department—1 hand engine, 1 hook and ladder truck, 1 chemical engine, 2 hose carriages; hose, rubber good 1,300 ft, inferior 350 ft; total membership 55, all volunteers. F. Krenz.

WATER SUPPLY—Source, artesian wells; system, direct. Supt, Frank Krenz.

Highland, Madison Co., population 1,857; fire area 80 acres; mercantile buildings, brick, 1 to 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted except in fire limits; causes of fire investigated. Fire department—2 hand engines, 2 hook and ladder trucks, 4 hose carriages, 1 private hose cart and 1,270 ft cotton hose; hose, cotton good 300 ft, rubber good 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total membership 75, all volunteers; bell alarm; 2 fire companies. Chief engineer, Maurice Maroot.

WATER SUPPLY—Source, 16 cisterns supplied from buildings, cap 116,000 gals.

Highland Park, Lake Co., population 3,000; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 1,300 ft, rubber good 200 ft. Chief Engineer, W. F. Edwards.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 28,000 gals; 2 engines, dy cap 3,000,000 gals 35 hydrants, Mathews; pipe 8 miles, 6 and 4 in dia, Dennis Long & Co.; 35 valves, Eddy; pressure, domestic 20 pounds; works owned by city; cost to construct \$20,000; ann expenses \$1,000; int on bonds 5 per cent. Supt, Alexander Scott.

Hillsboro, Montgomery Co., population 2,000; fire area 25 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 500 ft; bell alarm. Chief engineer, A. Clotfeller.

WATER SUPPLY—Source, wells; system, pump to tank; cap 50,000 gals; dy cap 500,000 gals. Worthington pumping engines; pipe 4 miles, 4 to 8 in dia; 28 hydrants; pressure 60 to 140 pounds; cost to construct \$15,000; ann expenses \$600; works owned by city. Supt, Richard Rowe.

Hinckley, DeKalb Co., population 494; mercantile buildings, wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,400 ft; value of fire department equipment \$8,400; value of buildings occupied \$300; expenses \$1,000; total membership 48, all volunteers; bell alarm; 18 hydrants. Chief engineer, H. H. Hopkins.

WATER SUPPLY—Source, artesian well; system, gravity from standpipes; standpipe cap 3,300 bbls; pumping engines, dy cap 800 bbls; 17 hydrants; pipe 2 miles, 6 in dia; pressure 40 pounds; waterworks owned by city; cost to construct \$6,000; ann expenses \$40. Supt, John Mulroy.

Hoopston, Vermillion Co., population 1,911; fire area 16 acres; mercantile buildings, brick and wood, 2 stories. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of

buildings occupied \$400; volunteer department; bell alarm. Chief engineer, W. A. Brillart.*

WATER SUPPLY—Source, 2 wells; system, pumping to reservoir and standpipe; reservoir cap 30,000 gals; standpipe cap 30,000 gals, pumping engines, dy cap 650,000 gals; 25 hydrants; pipe 16 miles, 1 to 8 in dia; 18 valves; pressure, domestic 55, fire 125 pounds; works owned by city; original cost to construct \$16,700; expenses of construction to date \$45,000; ann expenses \$1,300. Supt John Ernest.

Jacksonville, Morgan Co., population 12,000; fire area 320 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft, rubber inferior 500 ft; 6 horses, value \$1,500; value of fire department equipment \$10,000; value of buildings occupied \$15,000; ann expenses of department \$5,500; total membership 21, paid full time 8, part time 13; telephone alarm. Chief engineer, Chas. A. Batty.

WATER SUPPLY—Source, surface water and artesian wells; system, pump into reservoir, cap 2,500,000 gals; pumping engines, dy cap 2,000,000; 132 hydrants; pipe 18½ miles, 10 to 2 in dia; 93 valves; pressure, domestic 45, fire 160 pounds; works owned by city; cost to construct \$200,000; ann expenses \$7,000. Supt, E. S. Greenleaf.

Jerseyville, Jersey Co., population 3,500; fire area 500 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1, 3 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 50 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hand Babcock hose wagon; hose, rubber good 600 ft, rubber inferior 400 ft; value of fire department equipment \$2,500; value of buildings occupied \$8,000; total membership 50, volunteers; whistle alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, J. S. Mallott.*

WATER SUPPLY—Source, artesian wells; system, gravity; reservoir cap 180,000 gals; standpipe cap 33,000 gals; 2 pumping engines, dy cap 690,000 gals; 31 hydrants; pipe 4 miles, 4, 6 and 8 in dia; pressure, domestic 50, fire 50 to 125 pounds; works owned by city; original cost to construct \$34,500; expenses of construction to date \$35,000; ann expenses \$2,300. Supt and engineer, William Pittman.

Joliet, Will Co., population 33,000; fire area 3,840 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam engines, 2 chemical engines on wheels, 5 chemical extinguishers, 1 aerial truck, 3 hose carriages, 2 hose wagons; hose, rubber good 1,500 ft; 13 horses, value \$1,500; value of fire department equipment \$15,000; value of buildings occupied \$16,000; total ann expenses of department \$25,000; total membership 23, paid full time 20, paid part time 3; Gamewell alarm; 80 street boxes. Marshal, John D. Paige.

WATER SUPPLY—Source, drive wells and artesian; system, pumping to standpipe and direct; dy cap 7,500,000 gals. Gaskill and Ellis; 118 hydrants; pipe 18 miles, 16 to 4 in dia; lead service pipe; pressure, domestic 60, fire 120 pounds; works owned by city; cost to construct \$300,000; ann expenses \$13,000. Supt, Frank Dewey.

Kankakee, Kankakee Co., population 9,025; Fire department not reported.

WATER SUPPLY—Source, river; system, pumping to standpipe; standpipe 20x140 ft; 2 pumping engines, dy cap 1,000,000 gals each; 117 hydrants; pipe 11 1-2 miles, 4 to 16 in dia; pressure 45 to 150 pounds; waterworks owned by company; cost to date \$250,000; ann expenses \$8,600. Supt, J. B. Read.

Kansas, Edgar Co., population 1,500; fire area 500 acres; mercantile buildings, brick, tin or iron roofs, 2 stories; private, wood, 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 12 chemical extinguishers, 1 hook and ladder truck, 1 hose wagon; hose, cotton good 50 ft, rubber good 450 ft; value of fire department equipment \$1,500; value of buildings occupied

\$2,000; total ann expenses of department \$200; total membership 20, volunteers; bell alarm. Chief engineer, J. M. Hough.

WATER SUPPLY—Source, wells and cisterns.*

Memney, Dewitt Co., population 497; fire area 2 1-2 blocks; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, buckets and ladders; hose, rubber good 300 ft; value of fire department equipment \$500; value of buildings occupied \$500. Chief engineer, C. E. Howard.*

WATER SUPPLY—Source, wells.*

Mewanee, Henry Co., population 4,560; fire area 1 mile sq; mercantile buildings, brick, 2 stories; private, wood, 2 stories. Fire department—3 hand engines, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton 1,000 ft, rubber good 1,900 ft; total membership 70, all volunteers. Chief engineer, E. E. Baker.*

WATER SUPPLY—Source, 3 artesian wells; system, pumping direct; reservoir cap 300,000 gals; dy cap 2,500,000 gals, Buffalo pumping engines; 40 hydrants, Ludlow; pipe 4 miles, 10 to 6 in dia, National Tube Works Co.; 11 valves, Ludlow; pressure, domestic 40, fire 100 pounds; works owned by city; original cost to construct \$50,000; expenses of construction to date \$60,000; ann expenses \$4,000. Chairman of com., A. W. Errett; chief engineer of waterworks, J. Kean.*

Mirkland, DeKalb Co., population 550; fire area 1-1/2 mile; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 38 chemical extinguishers, 1 hose carriage; hose, rubber good 800 ft; value of fire department equipment \$1,440; expenses \$200; total membership 40, all volunteers; bell alarm. Chief engineer, O. W. Kloe.

WATER SUPPLY—Source, 7 cisterns, cost \$340.

Mirkwood, Warren Co., population 949; mercantile buildings, brick and iron, 1 and 2 stories; dwellings, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 chemical engine, 1 hook and ladder truck; hose, rubber good 100 ft, poor 100 ft; total membership 35, all volunteers. Chief engineer, R. L. Everett.

WATER SUPPLY—Source, 4 wells.

Knoxville, Knox Co., population 2,000; fire area 1 mile sq; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 12 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, buckets; hose, cotton good 400 ft; value of fire department equipment \$1,200; value of buildings occupied \$250; total ann expenses of department \$50. Chief engineer, Ed. Hammerstron.*

WATER SUPPLY—Source, wells and cisterns. Chairman water com, H. J. Charles.

Lacon, Marshall Co., population 1,649; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft, inferior 800 ft, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; expenses for past year \$1,800; total membership 30, portion paid full time; bell alarm. Chief engineer, R. M. Bone.*

WATER SUPPLY—Source, well; system, pumping to standpipe; standpipe cap 110,000 gals; pumping engines, dy cap 864,000 gals; hydrants 26; pipe 1 mile, 8 in dia; pressure, domestic 50, fire 50 to 150 pounds; works owned by city; original cost to construct \$15,000; expenses of construction to date \$15,000. Supt, J. B. Chapman.

LaGrange, Cook Co., population 4,000; fire area 400 acres; mercantile buildings, brick and wood, 1 to 2 stories; private, stone, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—4 hand engines, 4 hose carriages, all kinds; hose, cotton good 1,500 ft, inferior 100 ft; membership 45, volunteers; whistle alarm; 4 fire companies. Chief engineer, Geo. D. Unold.*

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; reservoir cap 180,000 gals; pumping engines, dy cap 3,000,000 gals, Worthington; hydrants 112; pipe 12 1-2 miles, 4

to 12 in dia; pressure, domestic 50, fire 120 pounds. Supt, J. M. Strasser.

Lake Forest, Lake Co., population 1,200; fire area 5 miles; mercantile buildings, brick and wood, 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, leather 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,200; membership 100, volunteers; telephone alarm. Chief engineer, Joe Ensign.*

WATER SUPPLY—Source, Lake Michigan; system, pumping to standpipe; standpipe cap 18 x 80 ft; pumping engines, dy cap 2,000,000 gals; hydrants 43; pipe 6 1-2 miles, 4 to 12 in dia; 14 valves; pressure, domestic 40 to 80, fire 80 pounds; works owned by Lake Forest Water Co; original cost to construct \$58,000; expenses of construction to date \$84,000; ann expenses \$3,000. Supt, H. Horton.

Lanark, Carroll Co., population 1,500; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total membership 35, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. L. F. Bray, fire marshal.

WATER SUPPLY—Source, wells; system, gravity, pumping to standpipe; reservoir cap 50,000 gals; standpipe cap 50,000 gals, dy cap 1,000,000 gals; Smiley pumping engines; hydrants 18, Mathews; pipe 1-1/3 miles, 4, 6 and 8 in dia; 10 valves, 1 meter, Hersey; taps 25; iron service pipe; pressure domestic 45, fire 150 pounds; works owned by city; original cost to construct \$17,000; expenses of construction to date \$19,000; ann expenses \$550; put on bonds 6 per cent. Supt, Seth C. Wiley.*

La Salle, La Salle Co., population 11,000; fire area 22 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 1 1-2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 2 hose wagons; hose, rubber good 1,000 ft, cotton good 500 ft, cotton inferior 1,000 ft; 2 horses, value \$400; value of fire department equipment \$5,200; value of buildings occupied \$2,000; total ann expenses of department \$2,040; total membership 24, paid full time 3, paid part time 21; Ansonia electric alarm; street boxes 26; 2 fire companies. Chief engineer, Geo. A. Wilson.

WATER SUPPLY—Source, spring, 2 miles distant; system, pumping direct; pumping engines dy cap 2,700,000 gals; hydrants 90, Ludlow; pipe 18 miles, 4 to 12 in dia; pressure, domestic 80, fire 140 pounds; works owned by city; original cost to construct \$100,000; ann expenses \$3,500; put on bonds 6 per cent. Supt, Geo. A. Wilson.

Lemont, Cook Co., population estimated 5,000; mercantile buildings, wood. Fire department—1 hook and ladder truck, 2 hose carts; hose, good 1,000 ft. Chief engineer, Joseph Gehartz.*

WATER SUPPLY—Source, 2 artesian wells; system, pumping direct into mains; reservoir cap 175,000 gals; pumping engines, dy cap 15,000 gals; hydrants 75; pipe 8 1-2 miles, 6 and 3 in dia; pressure, domestic 75, fire 100 pounds; waterworks owned by city; cost to construct \$30,000; ann expenses \$4,500. Supt, J. J. Driscoll.

Lena, Stephenson Co., population 1,270; fire area 640 acres; mercantile buildings, brick, wood and stone, 2 and 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 3 hose carriages; flameless couplings used; hose, cotton good 500 ft, rubber good 1,550 ft, inferior 500 ft; value of fire department equipment \$8,000; total membership 38, paid full time 1; bell alarm. Chief engineer, Geo. W. Leibig.*

WATER SUPPLY—Source, 8 cisterns supplied from buildings, dy cap 1,400 gals. Town clerk, J. M. Sohermerhorn.*

Leroy, McLean Co., population 1,258; mercantile buildings, brick, iron and tin, 2 stories; pri-

vate, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers; hose, cotton good 200 ft, rubber good 400 ft; value of fire department equipment \$2,500; value of buildings occupied \$200; total ann expenses of department \$500; total membership 30, volunteers; bell alarm. Chief engineer, Chas. A. Schuler. *

WATER SUPPLY—Source, well; system, pumping to standpipe and direct; standpipe cap 74,000 gals; pumping engines, dy cap 150,000 gals, hydrants 5; pipe 1,300 ft, 4, 6 and 8 in dia; 6 valves; pressure, domestic 40 pounds, fire 45 to 70 pounds; works owned by city; cost to construct \$7,100. Supt, Win. Jones.

Lewistown, Fulton Co., population 2,600; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$1,400; value of buildings occupied \$1,000; 40 volunteer members; bell alarm. Chief engineer, J. F. Armdale.

WATER SUPPLY—Source, driven wells; system, pump to standpipe, cap 25,500 gals, Knowles pumping engines; pipe 5 miles, 4 to 8 in dia, Lake Shore Foundry; service pipe iron and lead; 32 hydrants; pressure, domestic 100, fire 150 pounds; cost of construction \$31,000; ann expenses \$12,000. Supt, M. P. Rice.

Lexington, McLean Co., population 1,187; no organized fire department; 1 hook and ladder truck, worthless.

WATER SUPPLY—Source, wells; force pumps and hose, worthless. Town clerk, A. B. Davidson.

Lincoln, Logan Co., population 10,000; fire area 75 acres; mercantile buildings, brick, stone and iron, 1 to 4 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 1,500 ft; 2 hoses, value \$400; value of fire department equipment \$8,000; value of buildings occupied \$300; total ann expenses of department \$2,000; members paid full time 1, volunteers 23, whistle alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, A. F. Dougherty.

WATER SUPPLY—Source, wells; system, pump to standpipe, 100 ft high, cap 150,000 gals; 2 compound pumps, dy cap 2,000,000 gals; 100 hydrants, pipe 17 miles, 4 to 14 in dia; pressure, domestic 40 to 50 pounds, fire 90 and up; cost to construct \$75,000; cost to gate \$130,000; works owned by company. Supt, A. J. Aldrich.

Litchfield, Montgomery Co., population 7,840; fire area 640 acres; mercantile buildings, brick and galvanized iron, 2 and 3 stories; private, wood, 1 story; wooden roofs not permitted in fire district; fireworks ordinance; fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton 100 ft, rubber inferior 1,200 ft, good 750; value of fire department equipment \$3,000; value of buildings occupied \$6,000; total membership 75, all volunteers; 3 fire companies, 1 hook and ladder company, 2 hose companies; bell alarm. Chief engineer, A. Neuber.

WATER SUPPLY—Source, creek; system, gravity; direct pumping; pumping engines, dy cap 1,000,000 gals; 7 1-2 miles mains, 4 to 10 in dia; 62 hydrants; pressure 40 to 150 pounds; works owned by private company; cost to construct \$75,000; expenses to date \$95,000; ann expenses \$4,000. Supt Frank Holden. *

Lockport, Will Co., population 4,500; fire area 600 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs permitted except on main street; fireworks ordinance. Fire department—1 hose carriage, other apparatus 4 ladders, each 25 ft long; hose, linen good 850 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,500; total ann expenses of department \$240; total membership 2, paid full time. Chief engineer, James A. Bern.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir; cap of reservoir 500,000 gals; waterpower pump dy cap 140,000 gals; 1 3-4 mile mains; 25 hydrants; works owned by company. Pres, J. L. Norton

Macomb, McDonough Co., population 5,000,

fire area 40 acres; mercantile buildings, brick, stone and metal, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance. Fire department—2,100 gal, chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft, rubber good 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$800; total membership 21, volunteers. Chief engineer, R. T. Quin.

WATER SUPPLY—Source, artesian well 1,350 ft deep; system, pumping to standpipe or direct; reservoir cap 90,000 gals; standpipe cap 65,000 gals; pumping engines, dy cap 60,000 gals; hydrants 32; pipe 3 miles; pressure, domestic 55 to 65, fire 125 to 140 pounds; waterworks owned by city. City clerk, W. H. Wilson.

Manhattan, Will Co., population 257; buildings, wood, 1 story; wooden roofs permitted. Fire department—ladders and buckets. *

WATER SUPPLY—Source and system not stated; 1 reservoir, cap 100 barrels; steam pump. Village clerk, H. E. Paul. *

Maroa, Macon Co., population 1,800; fire area 20 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 700 ft, inferior ft; value of fire department equipment \$1,000; value of buildings occupied \$1,500; total membership 35; bell alarm. Chief engineer, Jas. R. Morgan. *

WATER SUPPLY—Source, wells; system, pumping to tank; tank cap 1,800 bbls; reservoir cap 1200 bbls; 3 pumping engines; pipe 7,000 ft, 8 to 10 in dia; original cost to construct \$7,500. *

Marionville, La Salle Co., population 3,000; fire area 20 acres; mercantile buildings, brick, stone, wood and iron, 2 to 4 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire pump 5 hose carriages, 2 Gould rotary pumps, 1 hook and ladder truck; hose, rubber good 1,500 ft, cotton good 1,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$250; membership 35, volunteers; bell and whistle alarm; 1 hose company. Chief engineer, G. W. Smith.

WATER SUPPLY—Source, Illinois river; system, pumping direct; hydrants 13; pipe 2525 ft, 7 in dia; works owned by city; cost to construct \$4500; expenses of construction to date \$5,000. Supt, L. Haynes.

Marshall, Clark Co., population 2,100; fire area 30 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hose carriage, 1 hook and ladder truck, 1 hose wagon; hose, cotton good 400 ft, rubber good 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,500; total ann expenses of department \$600; total membership 25, volunteers; bell alarm. Chief engineer, J. L. Thompson.

WATER SUPPLY—Source, wells and cisterns.

Mascoutah, St. Clair Co., population 2,032; mercantile buildings, brick, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft, inferior 200 ft; ann expenses of department \$100; total membership 60; bell alarm. Chief elected by company, F. Graul.

WATER SUPPLY—Source, 7 cisterns.

Mattoon, Coles Co., population 9,000; fire area 12 blocks; mercantile buildings, brick, stone and iron, 2 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,500 ft, rubber inferior 1,500 ft; value of fire department equipment \$5,000; value of buildings occupied \$15,000; membership 16, volunteers; bell alarm. Chief, Peter Honn.

WATER SUPPLY—Source, wells; system, gravity and pumping to reservoir; reservoir cap 125,000 gals; standpipe cap 150,000 gals; dy cap 3,000,000 gals; pumping engines; hydrants 78; pipe 7 3-10 miles, 4 to 12 in dia; service pipe galv iron and lead; pressure, domestic 40, fire 80 to 200 pounds;

works owned by company. Supt. H. W. Clark.

McHenry, Mc Henry Co., population 2,000; fire area 1 x 2 miles; mercantile buildings, wood, brick and iron, 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 4 chemical extinguishers, pails and ladders; value of fire department equipment \$1,500; membership 30, volunteers. Chief engineer, Geo. W. Owen.

WATER SUPPLY—Source, lakes, river and wells. Mayor, G. W. Owens.

Memphis, La Salle Co., population 4,000; fire area 100 acres; mercantile buildings, brick and iron, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 250 ft, inferior 150, cotton good 1,300 ft, inferior 100 ft; value of fire department equipment \$4,500; value of buildings occupied \$2,000; total ann expenses of department \$500; membership 50, volunteers; 2 hose companies. Chief engineer, N. J. Kiegel.

WATER SUPPLY—Source, wells; system, pumping to reservoir and gravity; reservoir cap 150,000 gals; pumping engines, dy cap 110,000 gals; 75 bydrants; pipe 6 1-2 miles, 4 to 8 in dia; 13 valves; 23 meters; pressure, 150 to 160 pounds; waterworks owned by city; cost to construct \$40,000; int on bonds 6 per cent. Supt, J. L. Niesley.*

Metamora, Woodford Co., population 758; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 1-2 and 2 stories; wooden roofs not permitted in fire limits. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,400 ft; total membership 18, all volunteers; bell alarm. Chief engineer, Frank Glehl.

WATER SUPPLY—Source, wells; reservoir cap 1,600 barrels; dy cap 5,000 gals per hour; hydrants 8, Mathews; pipe 3-4 of a mile, 6 to 4 in dia; 2 valves; pressure 37 pounds; works owned by city; cost \$7,000. Pres. H. Jaquot.*

Metropolis City, Massac Co., population 5,373. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 force pump on wheels; hose, linen good 500 ft, inferior 550 ft; no of paid men 25. Chief engineer, John Bunchman.*

WATER SUPPLY—Source, Ohio river; system, pumping to standpipe; standpipe cap 25,000 gals; pumping engines, dy cap 1,440,000 gals, Deane; hydrants 62; pipe 6 miles, 4 to 10 in dia; service pipe galv iron; pressure, domestic 60; fire 70 pounds; works owned by city; original cost to construct \$51,000; ann expenses \$2,600. Supt. Thos. L. Davis.

Millstadt, St. Clair Co., population 1,186; fire area 640 acres; mercantile buildings, brick, 2 stories; private, brick, 1 1/2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; siamese couplings used; hose, cotton good 400 ft, rubber good 550 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 42, all volunteers; bell alarm. Captain, Chas. Jacobus.

WATER SUPPLY—Source, wells and cisterns.

Mionok, Woodford Co., population 2,600; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 240 ft, cotton good 1,150 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann expenses of department \$1,000; total membership 25; bell alarm. Chief engineer, Jas. A. Pickard.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 1,800 bbls; pumping engines, dy cap 500 bbls, Smith and Vail; hydrants 19; pipe 1 1/2 miles, 4, 6 and 8 in dia; pressure, domestic 40, fire 80 pounds; works owned by city; original cost to construct \$10,000. Eng. D. H. Davison.

Moline, Rock Island Co., population 14,000; fire area 6 miles; mercantile buildings, brick and stone, 2 to 6 stories; private, wood, 1 and 2 stories; wooden roofs, not permitted in fire limits; fireworks ordinance; causes of fire investigated.

Fire department—1 steam fire engine, 8 chemical extinguishers, 2 hook and ladder trucks, 8 hose carriages, 1 Bangor ladder; hose, rubber good 200 ft, rubber inferior 100 ft, cotton good 5,500, cotton inferior 300 ft, linen good 3,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$6,800; total ann expenses of department \$3,580; total membership 140; Gamewell electric alarm; street boxes 29. Chief engineer, Jas. J. Trevon.

WATER SUPPLY—Source, Mississippi river; system, pumping direct; pumping engines, dy cap 2,500,000 gals; hydrants 194; pipe 12 1/2 miles, 4 to 20 in dia; pressure, domestic 60, fire 100 pounds; works owned by city; expenses of construction to date \$128,000; ann expenses \$6,188; int on bonds 5 per cent. Fred. Supt, Alsterlund.

Monmouth, Kankakee Co., population 2,100; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, 500 ft fabric treated; value of fire department equipment \$2,500; value of buildings occupied \$4,000; total membership 6, paid full time. Chief engineer, Fred V. Sweet.

WATER SUPPLY—Source, Kankakee river; system, pumping to tank and direct; tank cap 700 bbls; 6 hydrants; pressure, fire 200 pounds. Supt, F. Melby.

Monmouth, Warren Co., population 8,000; fire area 10 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 10 chemical extinguishers, 2 hose carriages; hose, cotton good 1,800 ft; 2 hoses, value \$500; value of fire department equipment \$9,500; value of buildings occupied \$15,000; total ann expenses of department \$2,460; total membership 100, paid full time 2, volunteers members 125; bell alarm. Chief engineer, O. D. Wilcox.

WATER SUPPLY—Source, well; system, pumping to reservoir and direct; reservoir cap 300,000 gals; pumping engines, dy cap 1,800,000 gals; 93 bydrants; pipe 12 miles, 4 to 10 in dia; pressure, domestic 60, fire 140 pounds; works owned by city; expenses of construction to date \$78,795; ann expenses \$3,800; int paid on bonds \$2,600. Supt, R. G. Young.

Monticello, Platt Co., population 2,200; fire area 17 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hook and ladder truck; 700 ft cotton hose; value of fire department equipment \$400; value of buildings occupied \$200; membership 15, volunteers; electric alarm; 5 boxes. Chief engineer, Chas. P. Watts.

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 56,000 gals, standpipe cap 36,000 gals; pumping engines, dy cap 500,000 gals; 45 hydrants; pipe 4 miles, 4 to 8 in dia; pressure, domestic 50, fire 150 pounds; works owned by city; original cost to construct \$28,000; ann expenses \$900. Supt, Jas. Wiley; mayor, John E. Andrew; city clerk, W. T. Smith; county clerk, A. L. Rogers.

Morgan Park, Cook Co., population 2,500; fire area 1 sq mile; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hose carriage; hose, cotton good 500 ft, rubber good 150 ft; 2 hoses, value \$400; value of fire department equipment \$2,500; value of buildings occupied \$200. Chief engineer, I. H. Ketchum.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 100,000 gals; Deane pumping engines, dy cap 125,000 gals; 50 hydrants; pipe 20 miles, 6 and 8 in dia; pressure, domestic 30, fire 80 pounds; works owned by city; original cost to construct \$28,000; ann expenses \$4,000.

Morris, Grundy Co., population 4,000; mercantile buildings, brick and stone, 1 to 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 2,500 ft, cotton inferior 500 ft; 6 hoses; value of fire department equipment \$10,000; value of buildings

occupied \$5,000; total ann expenses of department \$2,500; total membership 25, paid full time 2, volunteer members 23; Gamewell electric alarm; 10 street boxes; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Henry Stocker.

WATER SUPPLY—Source, wells; system, pumping to reservoir; 811 hydrants; pipe 4 miles; quality of water good; cost to construct \$1,500; ann expenses \$900; works owned by city. Supt, H. Stocker.

Morrison, Whiteside Co., population 2,088. Fire department—3 hose carriages, all kinds hose, cotton good 1,000 ft, linen good 500 ft; total membership 18; telephone alarm; 6 street boxes. Chief engineer, W. Brewer.*

WATER SUPPLY—Source, spring, 1 mile distant; system, pumping to standpipe and direct; reservoir cap 216,000 gals; standpipe 35 x 30 ft, cap 216,000 gals; pumping engines, dy cap 1,500,000 gals; 34 hydrants; pipe 5½ miles, 4 to 8 in dia; 30 valves; 450 taps; service pipe wrought iron; pressure, domestic 33, fire 155 pounds; works owned by city; original cost to construct \$2,000; ann expenses \$2,000. Supt, H. G. Parrish

Mount City, Pulaaki Co., population 3,100; fire area 640 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 500 ft, inferior 100 ft; value of buildings occupied \$1,500; total membership 60, volunteers; bell alarm. Chief engineer, Geo. Eichhorn.

WATER SUPPLY—Source, cisterns. Waterworks with 20 fire hydrants will be put in this year.

Mount Carroll, Carroll Co., population 1,896; fire area 280 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, 300 ft rubber, 200 ft poor, 1,500 ft good linen; value of fire department equipment \$3,650; value of buildings occupied \$3,000; total ann expenses of department \$800; total membership 50, volunteers. Chief engineer, Cal M. Feaser.

WATER SUPPLY—Source, wells; system, pumping direct and to reservoir; reservoir cap 1,965 bbls; pumping engines, dy cap 1,000,000 gals; hydrants 22; pipe 1 3-4 miles, 4 to 10 in dia; 10 valves; 100 service pipe galv iron; pressure, domestic 50, fire 160 pounds; works owned by city; cost to construct \$20,000; ann expenses \$700. Supt, John Warfield.*

Mount Olive, Macoupin Co., population 2,500; fire area 360 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 chemical engine on wheels, 2 hose carriages; hose, rubber inferior 500 ft, cotton good 1,100 ft; value of fire department equipment \$2,800; total membership 65, volunteers; bell alarm. Chief engineer, Chas. J. Kuecott.*

WATER SUPPLY—Source, wells.

Mt. Vernon, Jefferson Co., population 7,000; fire area 3-4 mile sq; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 1,000 ft; 1 horse, value 150; value of fire department equipment \$2,000; value of buildings occupied \$500; total ann expenses of department \$300; total membership 24, paid full time 1, volunteer members 28; electric alarm; street boxes 7; 1 fire company. Capt, A. C. Johnson.

WATER SUPPLY—Source, artificial lake; system, pumping direct; reservoir cap 53,000,000 gals; pumping engines, dy cap 1,000,000 gals. Deane; hydrants 41; pipe 6 3-4 miles, 4, 6, 8, 10 in dia; service pipe galv iron; pressure, domestic 60, fire 125 pounds; works owned by company; original cost to construct \$33,000; expenses of construction to date \$35,000; ann expenses \$2,500; int on bonds 6 per cent. Supt, A. C. Johnson.

Murphysboro, Jackson Co., population 4,500; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 300 ft, cotton good 600 ft, inferior 500 ft; total member-

ship 21, volunteers; value of equipment \$2,300. Foreman, W. H. Hull.

WATER SUPPLY—Source, pumping to standpipe 3-4 mile from city; Hughes pumping engines, dy cap 1,750,000 gals; 50 hydrants; pipe 4 miles, 10 to 4 in dia; pressure, fire purpose, 65 pounds; works owned by company. Pres, W. K. Murphy.

Naperville, Du Page Co., population 2,216 fire area 40 acres; mercantile buildings, brick, wood and stone, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted outside of fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 steam fire engine, 10 chemical extinguishers (private), 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,300 ft; value of fire department equipment \$5,000; value of buildings occupied 2,000; ann expenses of department \$500; total membership 80, all volunteers; bell alarm. Chief engineer, Joseph Koehly.

WATER SUPPLY—Source, wells, rivers, spring and brooks.

Nashville, Washington Co., population 3,000 fire area 3-4 mile sq; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted by special permit only; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 hose and supply wagon, hose, rubber good 600 ft, poor 400 ft, cotton good 500 ft; value of fire department equipment \$6,500; value of buildings occupied \$2,500; total ann expenses of department \$150; membership 15, paid full time; bell alarm; 1 fire company. Chief engineer, Chris. Leyles.

WATER SUPPLY—Source, wells, 3 ponds and 15 cisterns; cisterns pumping direct into mains; dy cap 350,000 gals; works owned by city. Supt, Philip Reither.*

New Athens, St. Clair Co., population 900; fire area 400 acres; mercantile buildings, brick, 2 stories; private, brick, 1 and 2 stories; wooden roofs permitted, tin chiefly used. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 250 ft, cotton good 400 ft; value of fire department equipment \$1,500; ann expenses of department \$100; membership 35. Capt, Wm. Hiller.

WATER SUPPLY—Source, river and wells; 20 cisterns supplied from roofs; cap of cisterns 8,000 to 12,000 gals.

Normal, McLean Co., population 4,000; fire area 4 sq miles; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 650 ft, cotton inferior 50 ft; value of fire department equipment \$1,000; value of buildings occupied \$100; total ann expenses of department \$400; membership 12, paid part time; 1 fire company. Chief engineer, Watson Stewart.

WATER SUPPLY—Source, 1 large public well, private wells and cisterns.

Oak Park, Cook Co., population 5,000; fire area 4 sq miles; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber poor 300 ft, cotton good 200 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 25, paid part time; bell alarm. Chief engineer, Charles Wright.

WATER SUPPLY—Source, 7 artesian wells; system, pumping to standpipe; reservoir cap 3,000,000 gals; 2 standpipes, cap 100,000 gals; pumping engines, dy cap 2,500,000 gals; 398 hydrants; pipe 40 miles, 4 to 10 in dia; 90 valves; pressure, domestic 40, fire 100 pounds; works owned by company; original cost to construct \$200,000; expenses of construction to date \$300,000; ann expenses \$17,000. Supt, B. L. Dodge.

Odin, Marion Co., population 1,000; fire area 160 acres; buildings, wood, 2 stories; wooden roofs permitted. No organized fire department—1 chemical extinguisher, ladders and buckets.

WATER SUPPLY not reported.

O'Fallon, St. Clair Co., population 900; fire area 300 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire in-

vestigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, cotton good 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$4,185; total membership 27, volunteers; bell alarm. Chief engineer, John Housam.*

WATER SUPPLY—Source, wells.*

Okawville, Washington Co., population 1,000; fire area 1 mile sq; mercantile buildings, wood 1 and 2 stories; private, wood, 1 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage, ladders; hose, cotton good 500 ft, cotton inferior 150 ft; value of fire department equipment \$1,100; value of buildings occupied \$1,600; total ann expenses of department \$150; total membership 13, volunteers; bell alarm; 1 fire company. Chief engineer, John W. Schreiner. Can also use private equipment of Okawville Mineral Spring Co.

WATER SUPPLY—Source, wells and cisterns; Rumsey & Co. pumps; 5 fire plugs placed by Mineral Spgs Co.

Olney, Richland Co., population 4,000; fire area 2 miles sq; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, rubber good 150 ft, cotton good 800 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 80, volunteers; bell alarm. Chief engineer, W. A. Cope.

WATER SUPPLY—Source, Fox river; system, pumping to standpipe and direct; standpipe 124 by 11 ft; pumping engines, dy cap 2,000,000 gals; 40 hydrants; pipe 4½ miles, 4, 6, 8, 10 in dia; pressure, domestic 65, fire 125 pounds; works owned by city; cost to construct \$30,000; expenses of construction to date \$35,000; ann expenses \$2,000. Engineer, L. L. Lyons.

Omaha, Ironquois Co., population 1,380. Fire department—1 hook and ladder truck; hose, rubber good 100 ft, inferior 100 ft. Town clerk, A. M. Peck.*

WATER SUPPLY—Source, wells.

Oregon, Ogle Co., population 1,566; fire area 400 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—8 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 500 ft, rubber good 1,500 ft, inferior 500 ft, linen good 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$3,000; total membership 30, paid part time; bell alarm; 4 fire companies. Chief engineer, L. V. Rumery.*

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 100,000 gals; 20 hydrants; pipe 3 miles, 8, 6, 4 in dia; 6 valves; pressure 75 to 90 pounds; works owned by city; cost to construct \$13,000; ann expenses \$700. Supt, Thos. Jake-man.

Ottawa, LaSalle Co., population 12,000; fire area 60 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1, 2 and 3 stories; wooden roofs permitted except in fire area; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 heater; hose, rubber, good 1,300 ft, cotton good 2,900 ft; 4 horses; value \$800; value of fire department equipment \$15,000; value of buildings occupied \$6,000; total ann expenses of department \$6,000; total membership 27, volunteers, 4 paid; Gamewell system; 16 boxes and telephone; 1 fire company. Chief engineer, Henry Wolf.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 8,000 bbls; 6 cisterns; 5 hydrants; pipe ½ mile, 6 to 10 in dia; 4 miles of canal and feeder, which supplies water for fire purposes; city surrounded by rivers and canals; pressure 40 pounds; ann expenses \$200. Expect new system with 24 miles of pipe and 200 hydrants this year.

Palatine, Cook Co., population 1,037; buildings, frame, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 800 ft; value of fire department

equipment \$1,100; total membership 35, volunteers; bell alarm. R. M. Putnam.*

WATER SUPPLY—Source, wells; 11 tanks. Village clerk, C. H. Outting.*

Pana, Christian Co., population 5,077; fire area 700 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fire works ordinance. Fire department—1 chemical engine on wheels, 500 hand grenades, ladders and hooks; hose, rubber inferior 150 ft; value of fire department equipment \$2,000; total ann expenses of department \$100; total membership 24, volunteers; bell alarm. Chief engineer, Frank Williams.*

WATER SUPPLY—Source, wells and cisterns. City clerk, A. B. McMillan.*

Paxton, Ford Co., population 2,187; fire area 13 acres; buildings, brick, 2 and 3 stories. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,175; expenses of past year \$275; total membership 15, volunteers. Chief, N. E. Crothers.

WATER SUPPLY—Source, wells; system, pumping to reservoir and standpipe; reservoir cap 2,000 bbls; standpipe 8 in by 80 ft; pumping engines, hydrants 18; pipe 1½ miles, 4 to 6 in dia; 5 valves; service pipe cast iron; pressure, fire 80 pounds; works owned by city; original cost to construct \$7,700; expenses of construction to date \$14,000; ann expenses \$1,500. Chairman of com, W. H. Hunter.*

Pecatonica, Winnebago Co., population 1,500; fire area 120 acres; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 3 hose carriages, all kinds, ladders, picks, poles, hooks, etc.; hose, cotton good 100 ft, rubber good 400 ft, inferior 200 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 18, volunteers, 1 paid; bell and telephone alarm. Chief engineer, Nate Coiby.

WATER SUPPLY—Source, wells; system, pump to standpipe; cap 25,000 gals; Deane pumping engines, dy cap 180,000 gals; 10 hydrants, Geo. C. Morgan; pipe 4,000 ft, 8 to 4 in dia, Addyston Pipe Co.; 5 Galvin valves; quality of water good; pressure 55 pounds; works owned by city; cost to construct \$3,614.25; ann expenses \$400. Mayor, C. E. Hallock.

Pekin, Tazewell Co., population 11,206; fire area 8 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hose carriage, 1 hose wagon; hose, cotton good 2,500 ft; 4 horses, value \$800; value of fire department equipment \$11,100; value of buildings occupied \$15,000; total ann expenses of department \$7,500; total membership 18, paid full time 1, paid part time 2, volunteer members 15; Gamewell electric alarm; street boxes 19. Chief engineer, Julius F. Jaackel.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; cap of standpipe 127,000 gals; pumping engines, dy cap 3,000,000 gals; 130 hydrants; pipe 13 miles, 4 to 16 in dia; 60 valves; pressure, domestic 60, fire 120 pounds; cost to construct \$100,000; cost to date \$125,000. Supt, Henry Lauts.

Peoria, Peoria Co., population 48,000; fire area 350 acres; mercantile buildings, stone and brick, 3 to 9 stories; private, wood and brick, 1 to 4 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 hand engine, 2 chemical engines on wheels, 8 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 8 hose carriages, all kinds, 2 hose wagons; hose, rubber good 6,000 ft, rubber inferior 1,500 ft, cotton good 3,300 ft, poor 500 ft; 28 horses, value \$6,000; value of fire department equipment \$40,000; value of buildings occupied \$34,800; total ann expenses of department \$56,000; total membership 108, paid full time 43, volunteer members 65; Gamewell electric alarm; 115 boxes. Chief engineer, Carl Moeller.

WATER SUPPLY—Source, wells; system, pumping to reservoir, standpipe and direct; reservoir cap 19,000,000 gals; standpipes, cap of both, 1,000,-

000 gals; 3 pumping engines, dy cap 7,500,000 gals each; 1,033 hydrants; pipe 77 miles, 4 to 30 in dia; pressure 50 to 140 lbs; Edson pressure recording gauges; works owned by company; cost to construct \$1,750,000. Supt, D. H. Maury, Jr.

Peotome, Will Co., population 1,000; fire area 80 acres; mercantile buildings, frame and brick, 2 stories; private, frame 2 stories. Fire department—1 hand engine, 9 chemical extinguishers, 1 hose carriage; hose, rubber good 400 ft; value of buildings owned \$200. E. B. Cowing.

WATER SUPPLY—Source, wells.*

Perru, LaSalle Co., population 6,000; fire area 640 acres; mercantile buildings, wood and brick, 1 to 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose wagon, 1 hose carriage; hose, cotton good 1,500 ft, poor 500 ft; 2 horses, value \$500; value of fire department equipment \$6,000; value of buildings occupied \$4,000; total ann expenses of department \$1,800; total membership 40, paid full time 1, paid part time 1, volunteers members 38; electric fire alarm; 23 boxes, 1 fire company. Chief engineer, T. Mueller.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe; reservoir cap 340,000 gals; standpipe cap 200,000 gals; pumping engines, dy cap 200,000 gals; 80 hydrants; pipe 10 miles, 4 to 12 in dia; pressure, domestic 45, fire 100 pounds; works owned by company; cost to construct \$76,500; cost to date \$80,000; ann expenses \$5,600. Supt, Theo. Wiberling.

Petersburgh, Menard Co., population 3,000; mercantile buildings, brick and stone, 2 stories; private, brick and stone, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. No fire department. Chairman of fire and water com, H. M. Levering.*

WATER SUPPLY—Source, wells; system, pump to standpipe, cap 200,000 gals; Worthington pumping engines, dy cap 1,500,000 gals; 25 hydrants; pipe 2½ miles, 10 to 4 in dia; pressure, domestic 60, fire 80 pounds; works owned by city; cost to construct \$20,000; ann expenses \$2,700. Supt, Jno. H. Seese.

Pickneyville, Perry Co., population 2,500; fire area 240 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs are permitted. Fire department—1 hook and ladder truck, 2 hose carriages; rubber hose good 1,200 ft; telephone alarm. Chief, Richard Sherman.

WATER SUPPLY—Source, lake; system, gravity and pumping direct; pumping engines, dy cap 2,000,000 gals; 200 hydrants, 75 fire plugs; pipe 4 miles, 6 in dia, 11 valves; pressure, domestic 80, fire 150 pounds; works owned by city; cost to construct, to date \$20,000. Supt, E. M. Norbury.

Plainfield, Will Co., population 1,000; fire area 5 acres; mercantile buildings, stone and brick, 1 and 2 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 20 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 water tank mounted; hose, cotton good 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$75,000; total ann expenses of department \$25; total membership 23, volunteers; bell alarm; 1 fire company. Chief engineer, A. J. McCreery.*

WATER SUPPLY—Source, wells. Village clerk, Robt. Andrus.*

Plano, Kendall Co., population 2,500; fire area 320 acres; mercantile buildings, brick; 25 to 30 ft; private; wood, 14 ft; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000; value of fire department equipment \$1,500; value of buildings occupied \$200; total membership 20, volunteers; bell alarm. Chief engineer, Wallace Paaker.

WATER SUPPLY—Source, well; reservoir cap 60,000 gals; pumping engines, dy cap 180,000 gals, Blake; 20 hydrants; pipe 2 1-4 miles, 4 to 6 in dia; pressure, domestic 35, fire 80 pounds; works owned by city; expenses of construction to date \$13,500; ann expenses \$700. Supt, F. S. Hadlock.

Polo, Ogle Co., population 1,828; fire area 850

acres; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,250 ft, cotton good 50 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,000; total membership 30, volunteers; bell alarm. Chief engineer, G. B. Treat.

WATER SUPPLY—Source, artesian well, 2,100 ft deep; system, pumping to reservoir and standpipe and direct; reservoir cap 30,000 gals; standpipe cap 27,000 gals; pumping engines; 22 hydrants; pipe 2½ miles, 8, 6 and 4 in dia; pressure 60 to 72 pounds; works owned by city; cost to construct \$16,000 for works, \$5,000 for w. ll. Supt, Richard Cornelius.

Pontiac, Livingston Co., population 4,000; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,000 ft, rubber inferior 500 ft; 2 horses, value \$400; value of fire department equipment \$7,000; value of buildings occupied \$2,500; membership 20, paid full time 2, paid part time 18; bell alarm. Chief engineer, Jno. W. Hooker.

WATER SUPPLY—System, pumping to standpipe; 2 compound pumping engines; hydrants 60; pipe 6 miles.

Princeton, Bureau Co., population 4,500; fire area 40 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft, linen good 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses of department \$200; total membership 70, all volunteers; bell alarm. Chief engineer, A. C. Best.

WATER SUPPLY—Source, well; system, pumping to reservoir and standpipe; reservoir cap 180,000 gals; standpipe cap 55,000 gals; pumping engines, dy cap 900,000 gals; hydrants 83; pipe 9 1-4 miles, 4, 6 and 8 in dia; 38 valves; taps 475; service pipe galv iron; pressure, domestic 35 to 45, fire 125 pounds; works owned by city; cost to construct \$30,000; expenses or construction to date \$53,000; ann expenses \$2,000. Supt, J. L. Huntington.*

Prophetstown, Whiteside Co., population 800; fire area no limit; buildings, wood, 1½ and 2 stories; fireworks ordinance. Fire department—2 chemical engines on wheels; hand grenades; hose, rubber good 200 ft; value of fire department equipment \$1,500; value of buildings occupied \$600; total membership 25, volunteers; bell alarm; 1 fire company. Chief engineer, Jno. B. Loomis.*

Pullman, Cook Co., (34th Ward of Chicago), population 12,614; fire area 700 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 1 and 3 stories; wooden roofs not permitted; fireworks ordinance; fire investigated. Fire department—4 chemical extinguishers, owned by factories 38, all 13,000 ft of hose, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 12,000 ft, rubber good 200 ft, inferior 200 ft; 5 horses, value \$950; value of fire department equipment \$5,000; total expenses of department \$5,500; total membership 8; paid full time; 1 hook and ladder company, 1 hose company. Chief engineer, Joseph Vogt.

WATER SUPPLY—Source, Lake Michigan and Lake Calumet; located 6 miles N. E. from city; system, direct into mains; water bought by meter from Chicago; hydrants 125; pipe 15 miles, 15 to 4 in dia; pressure, domestic 25 to 40, fire 70 pounds; waterworks owned by city and by Pullman Co; cost to construct \$200,000. Supt, Duane Doty.

Quincy, Adams Co., population 31,494; fire area 5½ sq miles; mercantile buildings, brick and stone, 4 and 5 stories; private, stone and brick, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—5 steam fire engines, 1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 8 hose carriages, 1 hose wagon; hose, rubber good 4,000 ft, inferior 2,000 ft; 21 horses, value \$4,200; value of fire department equipment \$35,000; value of buildings occupied \$75,000; total ann expenses of department \$29,800; total membership 80, paid full time

22, paid part time 13, volunteers 45; telephone alarm. Chief engineer, Geo. Schlag.*

WATER SUPPLY—Source, Mississippi river; system, pumping to filter; gravity, pumping to reservoir; cap reservoir 2,000,000 gals; pumping engines, dy cap 17,000,000 gals; hydrants 192; pipe 29 miles, 2 to 20 in dia; 149 valves; pressure 30 to 90 pounds; works owned by L. & W. B. Bull. Supt. Dow R. Gwinn.

Rantoul, Champaign Co., population 1,250 fire area $\frac{1}{2}$ mile; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted, tin on business bldgs, fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 300 ft; value of fire department equipment \$1,000; value of buildings occupied \$3,000; total ann expenses of department \$100; total membership 10, volunteers; bell alarm. Chief engineer, O. P. Hyde.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 25,200 gals; pumping engines, dy cap 50,000 gals; 8 hydrants; pipe 24 miles, 3 in dia; works owned by city; cost to construct \$1,500; cost to date \$5,000; ann expenses \$1,000. Supt. O. T. Olson.

Elvinton, Sangamon Co., population 1,000; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs are permitted, causes of fire investigated. Fire department—bucket brigade.

WATER SUPPLY—Source, wells and river. Mayor, J. M. Knox.

Boonville, Woodford Co., population 950; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hose carriage; hose, rubber good 200 ft; value of fire department equipment \$250; value of buildings occupied \$50. Chief engineer, A. Rapp.*

WATER SUPPLY—Source, wells. Village clerk, E. M. Cox.*

Robinson, Crawford Co., population 2,500; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine and chemical combined, 1 hook and ladder truck, 1 hose carriage; hose, cotton new 500 ft; volunteers 25; value of equipment \$1,000; value of buildings occupied \$300. Chief engineer, W. C. Kessler.

WATER SUPPLY—Source, 2 public wells 1,000 bbls cap each, 3 public wells 40 bbls cap each and 30 private wells. (Works contemplated.)

Rockelle, Ogle Co., population 1,800; fire area 20 acres; mercantile buildings, brick, 1 and 2 stories, private, frame; wooden roofs permitted. Fire department—3 hose carriages; hose, rubber good 1,400 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 30, volunteers; whistle alarm. Foreman, E. W. Unger.*

WATER SUPPLY—Source, springs; system, pumping to standpipe; standpipe cap 33,000 gals; pumping engines, dy cap 1,500,000 gals; 59 hydrants; pipe $\frac{1}{2}$ miles, 4 to 8 in dia; pressure, domestic 65, fire 100 pounds; works owned by city; cost to construct \$22,000; ann expenses \$2,500. Supt. S. H. Wolfe.

Rock Falls, Whiteside Co., population 2,400; buildings, wood and brick, 2 stories; wooden roofs permitted. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, hand grenades; hose, cotton good 500 ft, rubber good 600 ft, linen good 400 ft; value of fire department equipment \$3,000; value of bldgs \$2,500; ann expenses \$300; total membership 25, volunteers; whistle and bell alarm. Chief, A. C. Stanley.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; Worthington pumping engines, dy cap 4,000,000 gals; 13 hydrants; pipe 1 mile, 8 in dia; ann expenses about \$800. Supt. Judd Decker.

Rockford, Winnebago Co., population 25,000; fire area 400 acres; mercantile buildings, stone and brick, 2 to 6 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 7 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck,

2 hose carriages, 3 hose wagons; hose, rubber poor 1,000 ft, cotton good 3,650 ft, linen good 200 ft; 14 horses, value \$2,800; value of fire department equipment \$18,519.50; value of buildings occupied \$31,890; total ann expenses of department \$34,867; total membership 25, paid full time 25; Gamewell electric alarm; 37 street boxes. Chief engineer, Edward Heffran.

WATER SUPPLY—Source, artesian wells; system, pumping direct; reservoir cap 1,250,000 gals; pumping engines, dy cap 12,000,000 gals; 337 hydrants; pipe 50.87 miles, 4 to 20 in dia; 495 valves; pressure, domestic 45, fire 60 to 120 pounds; works owned by city; original cost to construct \$463,851; expenses of construction to date \$991,619; ann expenses \$15,961. Supt. Chas. W. Calkins.

Rock Island, Rock Island Co., population 20,000; fire area 20 miles; mercantile buildings, brick and stone, 2 to 5 stories; private, wood and brick, 2 stories; wooden roofs not permitted; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, rubber inferior 1,500 ft, cotton good 4,500 ft; 4 horses, value \$650; value of fire department equipment \$10,000; total ann expenses of department \$5,500; total membership 10, paid full time; Gamewell electric alarm; 23 street boxes. Chief, Bernard Brahm.

WATER SUPPLY—Source, Mississippi river; system, pumping direct; Holly pumping engines, dy cap 8,000,000 gals; 165 hydrants; pipe 22 miles, 4 to 16 in dia; service pipe lead; pressure, domestic 60, fire 100 pounds; works owned by city; original cost to construct \$200,000; expenses of construction to date \$275,000; ann expenses \$11,000. Supt. John A. Murrin.

Rogers Park, Cook Co., population 1,708; fire area 600 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 550 ft; value of fire department equipment \$1,000; value of buildings occupied \$7,000; 12 volunteer members; bell alarm. Chief engineer, W. H. Marshall.*

WATER SUPPLY—Source, Lake Michigan; system, pumping to standpipe; standpipe cap 105,000 gals; Deane pumping engine, dy cap 2,500,000 gals; 160 hydrants; pipe 17 miles, 6 to 12 in dia; service pipe lead; pressure, domestic 50, fire 90 pounds; works owned by company. Supt. H. E. Keeler.

Roodhouse, Greene Co., population 3,000; fire area 6 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 300 ft; value of fire department equipment \$750; value of buildings occupied \$3,000.*

WATER SUPPLY—Source, wells.*

St. Charles, Kane Co., population 2,500; fire area 800 acres; mercantile buildings, brick, 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers, 2 hose carriages, 2 Holly pumps; hose, rubber good 400 ft, cotton good 500 ft; value of building occupied \$1,200; total membership 20, volunteers; 1 fire company. Chief engineer, M. E. Sinton.*

WATER SUPPLY—Source, springs; system, pumping to standpipe; reservoir 90x18 ft. Works as above, were started, hard times stopped work, will resume as soon as new Co. is formed. Water for fire protection from wells and river.

Sandwich, DeKalb Co., population 2,980. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 2,000 ft; total membership 40, paid part time. Chief, Frank Mahan.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; cap of standpipe 90,000 gals; Worthington pumping engines, dy cap 1,000,000 gals; 36 hydrants; pipe $\frac{1}{2}$ miles, 4 to 8 in dia; pressure 50 to 120 pounds; cost to construct \$25,000; ann expenses \$1,400. Engineer, L. D. Smith.

Savanna, Carroll Co., population 4,500; fire area 10 blocks; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; metal roofs used; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder

truck, 4 hose carriages; hose, cotton good 1,900 ft., inferior 100 ft.; value of fire department equipment \$3,600; value of buildings occupied \$3,000; total membership 100, volunteer members; bell alarm. Fire chief, D. C. Smith.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir; reservoir cap 700,000 gals; pumping engines, dy cap 1,000,000 gals; 34 hydrants; pipe 4 1/2 miles, 4 to 10 in dia; 24 valves; 300 taps; service pipe galv iron; pressure 85 pounds; works owned by city; cost to construct \$40,000; ann expenses \$1,500. Supt, J. S. Hunt.

Seneca, LaSalle Co., population 1,000; fire area 80 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine, 1 hose carriage, hooks and ladders; hose, cotton 2,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$4,500; total membership 25, volunteers, 2 paid part time; bell alarm; 1 fire company. Chief engineer, J. C. Laumly.

WATER SUPPLY—Source, 3 artesian wells; system, pumping to 3 cisterns; cap 1,000 barrels each; 9 valves; pressure 15 to 100 pounds. Canal runs through town. Village clerk, Thomas Murry.

Somonauk, De Kalb Co., population 1,200 mercantile buildings, brick and stone, 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; membership 30, volunteers. Chief, H. F. Hess.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 2,000 bbls; dy cap 150 bbls; hydrants 35; pipe 4 miles, 6 and 4 in dia; pressure, domestic 35, fire 40 pounds; works owned by city; original cost to construct \$8,000; ann expenses \$100. Supt, C. C. Stevens.

South Evanston, Cook Co., (see Evanston).

Springfield, Sangamon Co., population 30,000; fire area 300 acres; mercantile buildings, brick, iron and stone, 3 and 7 stories; private, wood, 2 to 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 supply wagon; hose, rubber good 400 ft, cotton good 7,500 ft, linen good 500 ft; 21 horses; value \$3,500; value of fire department equipment \$24,000; value of buildings occupied \$40,000; total ann expenses of department \$30,000; total membership 50, paid full time 38, paid part time 12; Gamewell electric alarm; 72 street boxes; 5 fire companies, 4 engine companies, 1 hook and ladder company. Contemplated, steamer and 1 hook and ladder truck. Fire marshal, Thos. Fountain.

WATER SUPPLY—Source, well and galleries, 4 miles distant; system, pumping direct to reservoir; reservoir cap 4,000,000 gals; pumping engines, dy cap 5,000,000 gals; hydrants 183; pipe 33 miles, 4 to 24 in dia; pressure, domestic 30 to 40, fire 50 to 60 pounds; work owned by city; original cost to construct \$550,000; ann expenses \$19,000. Supt, Peter Berriman.

Spring Valley, Bureau Co., population 3,837; mercantile buildings, brick, 2 stories; private, wood, 1 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,280 ft; value of fire department equipment \$2,500; total membership 37; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Fire marshal, E. G. Moore; chairman of fire water com, P. J. O'Brien.

WATER SUPPLY—Source, springs, 1/2 mile distant; system, pumping to standpipe; standpipe cap 129,822 gals; Knowles, pumping engines, dy cap 46,200 gals; hydrants 11; pipe 2 miles, 10 in dia; Philadelphia; 7 valves, Philadelphia; 1 meter; service pipe galv iron; pressure, domestic 60, fire 80 pounds; works owned by city; cost to construct \$40,000; ann expenses \$1,500. Supt, Geo. Maroo.

Stamton, Macoupin Co., population 2,550; mercantile buildings, brick and iron, 2 stories; private, frame, 1 story; wooden roofs not permitted in fire limits. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, buckets; hose, cotton good 300 ft, rubber good 200 ft, inferior 500 ft; value of fire department equip-

ment \$2,000; value of buildings occupied \$8,000; total ann expenses of department \$100; total membership 25, volunteers; bell alarm. Chief engineer, H. A. Fischer.

WATER SUPPLY—Source, well and cisterns.

Sterling, Whiteside Co., population about 6,000; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 stories; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 aerial truck and 1 supply wagon, 5 hose carriages; hose, cotton good 600 ft, inferior 300 ft, rubber good 2,400 ft; 2 horses value \$310; value of fire department equipment \$6,000; total membership 30, paid full time 1, paid part time 29; bells and whistle alarm. Chief engineer, C. H. Ives.

WATER SUPPLY—Source, artesian wells 1,400 ft deep; system, pumping to standpipe and direct; cap reservoir 1,000,000 gals; cap standpipe 220,000 gals; pumping engines, dy cap 2,500,000 gals; 134 hydrants; pipe 14 miles, 16 to 4 in dia; taps 448; service pipe cast iron; quality of water good; pressure, domestic 50, fire 120 pounds; Edison pressure recording gauge. Supt, W. J. Watson.

Streator, LaSalle Co., population 16,000; fire area 4 sq miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 8 chemical hand extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 2,000 ft, inferior 400 ft; 4 horses, value \$700; value of fire department equipment \$7,000; value of buildings occupied \$15,000; total membership 15, paid full time 3, paid part time 12; electric alarm; 12 boxes. Chief engineer, Jas. McMahon.

WATER SUPPLY—Source, river; system, pumping to standpipe; reservoir cap 150,000,000 gals; standpipe cap 300,000 gals; pumping engines, dy cap 3,000,000 gals; 193 hydrants; pipe 23 1/2 miles, 4 to 16 in dia; pressure, domestic 45, fire 120 pounds; works owned by company; cost to construct \$337,000; ann expenses \$6,000. Supt, D. E. Huggans.

Sycamore, De Kalb Co., population 3,300; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,500 ft, poor 250 ft; value of fire department equipment \$25,000; value of buildings occupied \$3,000; membership 55, paid part time; electric bell alarm; 8 street boxes. Chief engineer, E. K. Jones.

WATER SUPPLY—Source, wells; system, pumping to reservoir, standpipe and direct; reservoir cap 40,000 gals, standpipe cap 180,000 gals; pumping engines, dy cap 1,000,000 gals; 52 hydrants; pipe 5 1/4 miles, 4, 6, 8 and 10 in dia; 22 valves; taps 127; service pipe lead and steel; pressure, domestic 60, fire 120 pounds; works owned by city; cost to construct \$40,000; expenses of construction to date \$60,000; ann expenses \$1,500. Supt, S. O. Pike.

Tiskilwa, Bureau Co., population 1,000; fire area 300 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$800; value of buildings occupied \$700; total membership 35, volunteers; bell alarm; 1 fire company. Capt, L. O. May.

WATER SUPPLY—Source, 2 springs, 1 mile distant; system, gravity; hydrants 6; pipe 1 1/2 miles, 4 in dia; works owned by village; original cost to construct \$3,000; int on bonds 5 per cent. Chairman of com, J. J. Wilkins.

Tolono, Champaign Co., population 950; fire area 840 acres; mercantile buildings, wood, brick, iron and tin, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 18 leather buckets; hose, rubber good 300 ft, cotton good 300 ft; value of fire department equipment \$825; value of buildings occupied \$300; total membership 23, volunteers; bell alarm. Chief engineer, R. Richmond.

WATER SUPPLY—Source, wells and cisterns.

Trenton, Clinton Co., population 1,600; fire area 640 acres; mercantile buildings, brick and wood, 1 to 4 stories; private, wood, 1 to 4 stories;

wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 12 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 750 ft, cotton inferior 250 ft; value fire department equipment 1,800; value of buildings occupied \$400; total ann expenses of department \$600; membership 50, paid full time; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, L. M. Koentz.

WATER SUPPLY—Source, wells, cisterns and 5 ponds. Have voted to expend \$8,000 for water-works. City clerk, T. J. Kasper.

Tuscola, Douglas Co., population 2,500; fire area 30 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels; hose, rubber good 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$75; total membership 18, paid part time; bell alarm. John Fairbairn.*

WATER SUPPLY—Source, wells.*

Urbana, Champion Co., population 4,500; fire area 4 acres; mercantile buildings, brick, 2 stories; wooden roofs not permitted in fire limits; private, wood, 2 stories. Fire department—1 hand engine, 2 hose carriages, 1 supply wagon; hose, rubber good 500 ft, cotton good 750 ft; 2 hoses, value \$300; value of equipment \$3,000; value of buildings occupied \$300; total expenses for past year \$2,920; total membership 8; electric alarm. Chief engineer, T. Koucher.

WATER SUPPLY—Source, surface water, 8 cisterns; system, direct and pumping to reservoir; cap of reservoir 250,000 gals; 40 hydrants; pressure 90 pounds.

Vandalia, Fayette Co., population 2,144; fire area 1,280 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total membership 20, paid part time; bell alarm. Chief engineer, Chas. Washburn.

WATER SUPPLY—Source, cisterns, supplied from buildings. Works contemplated.

Venice, Madison Co., population 2,000; mercantile buildings, wood and brick, 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, rubber inferior 800 ft; value of fire department equipment \$1,100; value of buildings occupied \$500; total membership 22, volunteer; electric alarm; 13 street boxes. Chief engineer, A. J. Miller.

WATER SUPPLY—Source, Mississippi river; system, pump to tank; cap 60,000 gals; Deane pumping engine, 400,000 gals; pipe 4 miles, 4 in dia; pressure, domestic 40 pounds, fire 125 pounds; works owned by city; 80 hydrants; cost to construct \$18,000; ann expenses \$1,000.

Warsaw, Hancock Co., population 3,500; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, rubber inferior 800 ft, cotton good 1,300 ft, leather 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$150; total membership 90, volunteers; bell alarm; 2 fire companies, 1 engine company, 1 hook and ladder company. Chief engineer, John D. Hopkins.

WATER SUPPLY—Source, artesian well; system, direct pumping; Gray pumping engines; 7 hydrants; pipe 2-4 mile, 6 and 4 in dia; pressure 20 pounds; cost to construct \$5,000; ann expenses \$25. Supt. Frank Meyers.

Watseka, Iroquois Co., population est. 2,500; mercantile buildings, brick, 1 and 2 stories; private, wood, 2 stories; wooden roofs are not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hook and ladder trucks, 1 not in repair, 2 hose carriages, all kinds, other apparatus, hooks

and ladders; hose, cotton good 1,000 ft; value of fire department equipment \$1,300; value of buildings occupied \$300; total ann expenses of department \$800; total membership 20, volunteers. Chief engineer, John Gibbons.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe and direct; standpipe cap 3,000 bbls; pumping engine, cap 2,000 bbls, 10 hours; 12 hydrants; pipe 4,000 ft, 6 to 8 in dia; 7 valves; 10 taps; iron service pipe; pressure 47 pounds; works owned by city; original cost to construct \$9,000; ann expenses \$500. Supt. J. S. Darrough.*

Waukegon, Lake Co., population 8,000; fire area 4 sq miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 2,300 ft, inferior 50 ft; 2 hoses, value \$300; value of fire department equipment \$5,000; value of buildings occupied \$3,000; ann expenses of department \$1,000; membership 14, paid part time; bell alarm; 1 engine company, 1 hook and ladder company. Chief engineer, Geo. D. Hardie; chairman of fire and water com, Jno. B. Gavin.

WATER SUPPLY—Source, 3 artesian wells; system, gravity and pumping direct; pumping engines; 80 hydrants; pipe 20 miles, 4, 5, 6 and 8 in dia; 8 valves; quality of water good; pressure 15 to 25 pounds; ann expenses \$2,000.*

Waverly, Morgan Co., population 1,800; fire area 4 mile sq; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels; hose, cotton good 500 ft; value of fire department equipment \$850; value of buildings occupied \$50; total membership 18, volunteers; bell alarm; 1 fire company. Chief engineer, H. J. Rodgers.

WATER SUPPLY—Source, wells and cisterns.

Wenona, Marshall Co., population 1,053; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—4 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$700; total membership 25, volunteers; steam whistle and bell alarm. Chief engineer, H. L. Taylor.

WATER SUPPLY—Source, private wells and cisterns. (Have voted to put in complete water-works system.)

Wheaton, Du Page Co., population 1,622; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder; 28 volunteer members. Chief engineer, J. H. Ashley.*

WATER SUPPLY—Source, wells. (Waterworks will be built this year.)

Whitehall, Green Co., population 1,961; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire districts; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 100 ft, rubber good 300 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,400; total membership 25, volunteers; bell alarm. Chief engineer, I. W. Decker.

WATER SUPPLY—Source, wells and cisterns and private reservoir of C. B. & Q. R. R.

Wilmington, Will Co., population 1,700; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in business portion. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,100 ft, cotton good 500 ft; value of fire department equipment \$6,000; value of buildings occupied \$5,000; total ann expenses of department \$150; total membership 35, volunteers; electric alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Fire marshal, Felix Keesley.

WATER SUPPLY—Source, Kankakee river; system, pumping direct; Holly pumping engines; 27 hydrants. Holly; pipe 2 miles, 4 to 6 in dia; 2 valves; quality of water soft; pressure 80 pounds; ann expenses \$200. Chairman of com. and mayor, A. I. White.*

Woodstock, McHenry Co., population 1,683; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, siamese couplings; hose, rubber good 800 ft, cotton 500 ft; value of fire department equipment \$3,000; total ann expenses of department \$500; total membership 75, volunteers; bell alarm. Chief engineer, Wm. Wiley.*

WATER SUPPLY—Source, wells; system, pumping by windmill; 5 cisterns, cap 2,500 bbls. City clerk, C. A. Lemmers.*

Wyoming, Stark Co., population 1,116; fire

area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 800 ft, cotton good 800 ft; value of fire department \$1,200; value of buildings occupied \$1,000; total ann expenses of department \$100; total membership 70, paid part time 4, volunteers 70; 5 alarm bells; 2 fire companies. Fire marshal, Geo. A. Proctor.

WATER SUPPLY—Source, wells and cisterns; quality of water hard. (The Holly system is contemplated.)

INDIANA.

Albion, Noble Co., population 1,400; fire area about 200 acres; buildings, brick and wood, 1 to 3 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$1,600; total ann expenses of department \$500; total membership 32, paid part time 22, volunteers 10; bell alarm. Chief engineer, W. E. Worden.

WATER SUPPLY—Source, 5 cisterns.

Anderson, Madison Co., population 20,000; fire area 1-3/4 mile; mercantile buildings, stone and brick, 2 to 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, (not used) 2 hose wagons; hose, rubber good 2,000 ft, poor 500 ft; 6 horses; value \$1,400; value of fire department equipment \$8,000; value of buildings occupied \$8,500; total ann expenses of department \$8,000; total membership 13, paid full time; Gamewell alarm; 15 street boxes; 1 hook and ladder company, 2 hose companies. Chief engineer, S. A. Towell.

WATER SUPPLY—Source, White river; system, pumping direct; 4 pumping engines, dy cap 6,000, 000 gals; hydrants; pipe 16 miles, 6 to 20 in dia; 73 valves; service pipe galv iron; pressure, domestic 50, fire 80 to 90 pounds; waterworks owned by city; original cost to construct \$20,000; expenses of construction to date \$120,000; ann expenses \$3,000. Supt, S. A. Towell.

Angola, Steuben Co., population 2,000; fire area 800 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; metallic roofs. Fire department—1 chemical engine on wheels, 10 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 250 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$100; total membership 40, all volunteers; Van Duzen & Co's bell alarm. Chief engineer, Jesse H. Carpenter.

WATER SUPPLY—Source, wells and cisterns.

Argos, Marshall Co., population 1,200; mercantile buildings, brick, 2 stories; private, wood, 1/2 stories; wooden roofs permitted, tin chiefly used; fireworks ordinance. Fire department—1 hand engine and chemical engine combined, 1 hook and ladder truck; hose, rubber good 300 ft; value of fire department equipment \$800; value of buildings occupied \$400; total membership 25, volunteers; bell alarm. Chief engineer, M. L. Corey.

WATER SUPPLY—Source, wells and cisterns.*

Auburn, DeKalb Co., population 3,041; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 700, inferior 100 ft, cotton good 200 ft; 4 horses, value \$800; value of buildings occupied \$3,000; value of fire department equipment \$8,000; total membership 18, paid full time 3, paid part time 15; electric alarm; street boxes 7. Chief engineer, J. F. Aber.

WATER SUPPLY—Source, wells. Town clerk, W. S. Raut.

Aurora, Dearborn Co., population 4,500; mercantile buildings, brick, 2 stories; private, wood, 1/2 and 2 stories; wooden roofs permitted in certain parts of city; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft, inferior 200 ft, cotton good 800 ft; value of

fire department equipment \$15,000; value of buildings occupied \$10,000; total ann expenses of department \$300; total membership 36, paid part time 3; bell alarm. Chief engineer, John Ulrich.

WATER SUPPLY—Source, river and 15 cisterns. Subject of putting in waterworks being agitated.

Batesville, Ripley Co., population 1,169; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1/2 stories; metal and slate roofs. Fire department—2 hand engines, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage, 3 steam pumps in factories for fire purposes only; hose, cotton good 100 ft, rubber good 1,800 ft; value of fire department equipment \$2,500; value of buildings occupied \$4,000 (town hall); total membership 60, all volunteers; bell and whistle alarm, Van Duzen & Titt. Chief engineer, W. M. Kruger.

WATER SUPPLY—Source, cisterns. Town clerk, Chas. Meyer.

Bedford, Lawrence Co., population 5,000; fire area 1-1/4 sq miles; mercantile buildings, stone and brick, 2 stories; private, wood, 1/2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 300 ft, linen good 1,650 ft; value of fire department equipment \$2,500; total ann expenses of department \$300; total membership 40, volunteers; bell alarm. Chief engineer, Peter Fillion.*

WATER SUPPLY—Source, white river; system, pumping to standpipe; standpipe cap 33,000 gals; 2 pumping engines, dy cap 750,000 gals each; hydrants 65; pipe 8 miles, 12, 10, 8, 6 and 4 in dia; pressure 50, fire 60 pounds; waterworks owned by city; original cost to construct \$65,000; cost to date \$67,000; ann expenses \$3,600. Supt, J. A. Richardson.

Bloomfield, Green Co., population 1,900; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—bucket brigade.*

WATER SUPPLY—Source, wells and cisterns. City civil engineer, F. M. Parker.

Bloomington, Monroe Co., population 6,500; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 40 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, rubber good 2,600 ft, cotton good 1,000 ft, leather good 280 ft; 2 horses, value \$325; value of fire department equipment \$7,500; value of buildings occupied \$3,000; total ann expenses of department \$1,200; total membership 28, paid full time 2, paid part time 26; bell alarm; total no of fire companies 1. Chief engineer, Samuel Gilmore.

WATER SUPPLY—Source, springs located 1-3/4 miles west of city; system, gravity and pumping; direct; reservoirs cap storage 200,000,000 gals, distributing 2,000,000 gals; pumping engines, dy cap 4,000,000 gals; 73 hydrants; pipe about 8 miles, 4 to 10 in dia; 19 valves; pressure, domestic 40, fire from 80 pounds up; waterworks owned by C. A. Erlund. Supt, Jean Adkins.

Blount, Wells Co., population 3,589; fire area 400 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—2 chemical engines, 1 hook and ladder truck, 2 hose carts, 1 hose wagon; hose, cotton good rubber lined 1,550 ft, inferior 50

ft; value of fire department equipment \$2,500; value of buildings occupied about \$4,000; total ann expenses \$350; total membership 42, all volunteers; bell alarm. Chief engineer, J. B. Plessinger.

WATER SUPPLY—Source, 5,200 ft wells; system, pumping direct; Holly pumping engines, dy cap 1,000,000 gals; hydrants 56; pipe 5 miles, 4 to 12 in dia; 25 valves; service pipe lead and black iron; pressure, domestic 45, fire 80 to 100 pounds; water-works owned by city; original cost to construct \$18,000; expenses of construction to date \$28,000; ann expenses \$1,700. Supt, W. B. DeHaven. (Will spend \$5,000 for new mains and 5 wells.)

Boonville, Warrick Co., population 2,500; fire area 150 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fire-works ordinance. Fire department—2 hand engines (chemical and fire combined), 1 hook and ladder truck, 1 hose carriage, other apparatus; hose, rubber good 250 ft, inferior 60 ft, cotton good 700 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; volunteers. Chief engineer, Jacob Gardner.

WATER SUPPLY—Source, 4 cisterns, cap of each 400 bbls.

Boswell, Benton Co., population 1,000; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted, metal used. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 250 ft; value of fire department equipment \$500; value of building occupied \$100; total membership 16, all volunteers; bell alarm. Chief engineer, A. Laury.

WATER SUPPLY—Source, cisterns; original cost to construct \$900; expenses of construction to date \$1,000; ann expenses \$25. Supt, Abe Lowry.

Bourbon, Marshall Co., population 1,100; fire area 2 blocks; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 10 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 600 ft, rubber 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$400; total membership 80, all volunteers; bell alarm; 1 engine company, 3 hook and ladder companies. Chief engineer, J. B. Brillhart.

WATER SUPPLY—Source, 12 cisterns; cap of cisterns 24,000 gals.

Brazil, Clay Co., population 9,000; fire area 150 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted. Fire department—1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, rubber good 2,000 ft, inferior 300 ft, cotton good 500 ft; 3 hoses, value \$400; value of fire department equipment \$5,300; value of buildings occupied \$5,000; total ann expenses of department \$4,000; total membership 18, paid full time 3, paid part time 18; Gamewell electric alarm; street boxes 18. Chief engineer, Chas. Jones.

WATER SUPPLY—Source, surface water; system, direct pumping; pumping engines, dy cap 1,500,000 gals; 55 hydrants; pipe 5 miles, 4 to 10 in dia; quality of water soft, no filtration; pressure 70 to 85 pounds; cost to construct \$50,000; ann expenses \$2,000. Supt, Thos. Henderson.*

Bremen, Marshall Co., population 1,300; fire area 108 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, hose, rubber 200 ft, cotton good 300 ft, leather 300 ft; value of fire department equipment \$12,000; value of buildings occupied \$500; total ann expenses of department \$600; total membership 75, all volunteers; bell alarm; 1 engine company, 2 hose companies, 1 hook and ladder truck. Chief engineer, H. H. Miller.

WATER SUPPLY—Source, 7 artesian wells; system, pumping to standpipe; standpipe cap 28,000 gals; pumping engines, dy cap 750,000 gals; hydrants 17; pipe 24 miles, 2 to 6 in dia; 6 valves; pressure, domestic 45, fire 150 pounds; works owned by city; original cost to construct \$9,000; expenses of construction to date \$10,500; ann expenses \$300. Supt, T. F. Knoblock.

Brookville, Franklin Co., population 1,028; fire area 400 acres; mercantile buildings, brick, 2

to 4 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 2 Babcock extinguishers; hose, rubber good 400 ft. Marshal, Adam Peter; wardens, John Burkhart, M. C. Armstrong.*

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap \$85,000 gals, pumping engines, dy cap 600,000 gals; hydrants 44; pipe 5 1-3 miles, 4 in dia; 28 valves; service pipe galv iron; pressure, domestic 63 and 81, fire 110 pounds; works owned by town; original cost to construct \$32,500; expenses of construction to date \$23,600; ann expenses \$1,135. Supt John Burkhart.

Brownstown, Jackson Co., population 2,000; fire area 40 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 500 ft; 2 hoses, value \$200; value of buildings occupied \$500; ann expenses \$210; value of fire department equipment \$650; total membership 12, volunteers. Chief engineer, John F. Slotz.

WATER SUPPLY—Source, wells and cisterns.

Butler, DeKalb Co., population 2,000; fire area 350 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 750 ft, inferior 200 ft; value of buildings occupied \$4,000; total membership 23, volunteers. Chief engineer, C. B. Mason.

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines, dy cap 1,500,000 gals; hydrants 43; pipe 3 1-3 miles—4, 6, 8 and 1 in dia; 21 valves; pressure, domestic 40, fire 100 pounds; works owned by city; original cost to construct \$22,000. Supt, Thos. Rudd.*

Cambridge City, Wayne Co., population 2,300; fire area 640 acres; mercantile buildings, brick, 3 stories; private, brick, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 50 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 600 ft, cotton good 1,200 ft; value of fire department equipment \$6,000; value of buildings occupied \$2,000; total membership 19, paid 1, rest volunteers; bell alarm. Chief engineer, W. A. Barefoot.

WATER SUPPLY—Source, wells, river and canal.

Cannelton, Perry Co., population 3,000; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted, tin used; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 800 ft, poor 400 ft; value of buildings occupied \$2,000; value of buildings \$900; total membership 32 to 40, volunteer; 4 fire companies; bell and whistle alarm. Chief engineer, William Heck.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir; cap 1,500,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 51; pipe 5 1-4 miles, 4 to 12 in dia; 31 valves; pressure, domestic 85, fire 95 pounds; works owned by company; ann expenses \$800. Supt, W. C. Henning.

Centerville, Wayne Co., population 947; fire area 840 acres; mercantile buildings, brick, 2 stories; private, brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 2,500 ft, cotton good 1,500 ft, linen good 1,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$3,000; ann expenses of department \$320; total membership 25, paid full time 2, paid part time 23; bell alarm. Chief engineer, A. H. Jones.

WATER SUPPLY—Source, wells and 12 cisterns; cap of cisterns 168,000 gals.

Charlestown, Clark Co., population 1,000; fire area 100 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—bucket brigade, hooks and ladders.

WATER SUPPLY—Source, wells and cisterns. Town clerk, L. C. Morrison.

Churubusco, Whitley Co., population 1,200; fire area 8 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 700 ft; value of fire department equipment \$1,300; value of buildings occupied \$900; total ann expenses of department \$90; total membership 33, all volunteers; bell alarm; 1 engine company, 1 hose company. Chief engineer, F. P. Loudy.

WATER SUPPLY—Source, wells and 6 cisterns cap 250 bbls each. Town clerk, John Pressler.*

Columbia City, Whitley Co., population 3,500; fire area 1 mile sq; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 450 ft, rubber good 2,900 ft; inferior 500 ft, 2 hoses, value \$450; value of fire department equipment \$12,500; value of buildings occupied \$5,000; total ann expenses of department \$1,200; total membership 58, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Geo. Bechtoldt.

WATER SUPPLY—Source, river running through city; system, pumping to cisterns (11), dy cap 6,350 bbls. Town clerk, F. M. Douglass; city civil engineer, E. K. Strong. Have voted for waterworks; system will be pumping direct.

Columbus, Bartholomew Co., population 6,719; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton 100 ft, rubber good 4,000 ft, inferior 500 ft; total membership 25, all volunteers; Gamewell alarm. Chief engineer, A. B. Reeves.*

WATER SUPPLY—Source, White river; system, pumping direct; pumping engines, dy cap 3,000,000 gals, Gaskell; 92 hydrants, Holly; pipe 15 miles, 4 to 10 in dia; Dennis Long & Co; 6 meters, Crown and Herscy; filtration gravel; pressure, domestic 50, fire 100 pounds; works owned by city; original cost to construct \$90,000; expenses of construction to date \$90,000; ann expenses \$3,000; int on bonds 4 and 5 per cent. Supt, G. S. Sulz.

Connersville, Fayette Co., population about 6,500; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 1, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, rubber good 1,600 ft, cotton rubber lined 800 ft; 1 horse; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$2,500; 20 volunteer members, 4 paid full time; Gamewell alarm; 20 street boxes. Chief engineer, William Henry.

WATER SUPPLY—Source, river, 8 miles distant; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 137 hydrants; pipe 18 miles, 4 to 18 in dia; 50 valves; pressure, domestic 45, fire 80 pounds; works owned by city; original cost to construct \$40,000; expenses of construction to date \$80,500; ann expenses \$225. Supt, E. Kuhn.

Convers, Miami Co., population 1,500; buildings, brick and wood, 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 400 ft; value of fire department equipment \$1,000; value of buildings occupied \$600; total membership 22, paid. Chief engineer, A. Michael.

WATER SUPPLY—Source, cisterns.

Covington, Fountain Co., population 3,000; fire area 4,000 acres; mercantile buildings, brick, tin and iron roofs, 2 and 3 stories; private, wood, 1 1/2 stories; wooden roofs not permitted in fire limits. Fire department—2 hose carriages; hose, cotton good 800 ft; value of fire department equipment \$1,000; expenses last year \$1,900; membership 40, volunteers; bell alarm. Chief, Peter Harman.

WATER SUPPLY—Source, well; system, pumping to standpipe and direct; standpipe cap 150,000 gals; Deane pumping engines, dy cap 1,600,000 gals; 40 hydrants; pipe 5 miles, 4, 6 and 8 in dia; 13 valves; service pipe galv iron; pressure, domestic 40, fire 100 to 150 pounds; works owned by

company; original cost to construct \$30,000; cost to date \$35,000; ann expenses \$2,500. Supt, W. H. Smith.

Crawfordsville, Montgomery Co., population 9,000; fire area 60 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 800 ft, rubber inferior 400 ft, cotton good 1,300 ft; 3 hoses, value \$350; value of fire department equipment \$9,000; value of buildings occupied \$7,000; total ann expenses of department \$3,400; total membership 12, paid full time 3, paid part time 9; Gamewell electric alarm; 15 street boxes. Chief engineer, O. C. Dorsey.

WATER SUPPLY—Source, Van Cleave and Whitlock springs; system, pumping to standpipe and direct; reservoir cap 573,500 gals; standpipe cap 941,275 gals; pumping engines, dy cap 2,500,000 gals; 140 hydrants; pipe 20 miles, 6 to 14 in dia; 40 valves; pressure, domestic 60, fire 80 to 100 pounds; works owned by company. Mgr, Edgar L. Street.

Crown Point, Lake Co., population 2,000; fire area 2 sq miles; mercantile buildings, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 450 ft, rubber inferior 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total membership 40, paid full time 1, volunteer members 39; bell alarm. Chief engineer, Frank J. Pinter.

WATER SUPPLY—Source, cisterns; cisterns cap 9,000 gals. Town clerk, B. C. Morton.

Decatur, Adams Co., population 3,142; mercantile buildings, brick and stone, 2 stories; private, wood, 1 1/2 and 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, inferior 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$2,000; total ann expenses of department \$100; total membership 60, all volunteers; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, James Hurst.

WATER SUPPLY—Source, wells and cisterns. It is intended to construct a system this coming season.

Delphi, Carroll Co., population 1,923; fire area 500 acres; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 1 and 1 1/2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 11 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000 ft, inferior 50 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,000; total ann expenses of department \$500; membership 21, volunteers; bell alarm. Chief engineer, D. B. McAfee.

WATER SUPPLY—Source, springs; system, gravity and pumping direct; reservoir cap 7,000 gals; standpipe cap 27,000 gals; Deane pumping engines, dy cap 1,000,000 gals; 42 hydrants; pipe 4 1/2 miles, 4, 6 and 8 in dia; 10 valves; Crane; pressure, domestic 20, fire 55 to 100 pounds; works owned by city; original cost to construct \$36,000; ann expenses \$800. Supt, C. A. O'Brien.

Dublin, Wayne Co., population 850; area 400 acres; buildings, brick and wood, 1, 2 and 3 stories. Fire department—buckets and force pump.

WATER SUPPLY—Source, wells and cisterns. Town clerk, A. T. White.

Edinburgh, Johnson Co., population 2,031; area 1 mile; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1,000 ft cotton hose; membership 15. Chief, Jno. J. Roth.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe 13 ft 60 ft; dy cap 1,500,000 gals; 30 hydrants; pipe 3 miles, 4, 6 and 8 in dia; pressure, domestic 55, fire 100 to 150 pounds; waterworks owned by city; original cost to construct \$20,500. Supt, Frank Mayfield.

Elkhart, Elkhart Co., population 14,500; mercantile buildings, brick, 2 to 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand fire engine, 6 chemical extinguishers, 2 hook and

ladder trucks, 4 hose carriages, all kinds; hose, rubber good 2,000 ft., rubber inferior 1,600 ft.; 4 horses, value \$800; value of fire department equipment \$18,500; value of buildings occupied \$10,000; total ann. expenses of department \$8,000; total membership 36, call men, paid full time 3; Gamewell alarm; 19 street boxes. Chief engineer, Nathan F. Smith.

WATER SUPPLY—Source, wells; system, pumping to tank and direct, cap 100,000 gals; pumping engines, dy cap 8,000,000 gals; 151 hydrants; pipe 15 miles, 4 to 12 in dia; 50 valves; 1 meter; quality of water good; pressure, domestic 40, fire 80 to 120 pounds; cost to construct \$135,000; ann. expenses \$4,500; int on bonds \$8,000. Supt. C. H. Watson.*

Elwood, Madison Co., population 9,000; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, ladders and chemical extinguishers; hose, cotton good 2,000 ft.; 3 horses, value \$450; value of fire department equipment \$2,000; expenses for past year \$2,200; total membership 11, paid full time 2; volunteer members 8; electric alarm; 18 street boxes. Chief engineer, John Garner. (Hook and ladder proposed.)

WATER SUPPLY—Source, wells; system, pumping direct; reservoir cap 500,000 gals; pumping engines, dy cap 1,000,000 gals; 108 hydrants; pipe 9 miles, 6 to 14 in dia; 24 valves; iron service pipe; pressure, domestic 50, fire 125 pounds; waterworks owned by company. Supt. W. G. Curtis.

Evansville, Vanderburgh Co., population 50,968; fire area 4,500 acres; mercantile buildings, brick and wood, 2 to 5 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 2 chemical engines on wheels, 12 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 9 hose carriages, all kinds, 1 hose wagon; hose, cotton good 10,000 ft., inferior 3,000 ft.; 45 horses, value \$9,200; total ann. expenses of department \$60,000; total membership 70, paid full time; Gamewell alarm; 58 street boxes. Chief engineer, Edward Grill.

WATER SUPPLY—Source, Ohio river; system, pumping direct into mains; pumping engines, dy cap 4,000,000 gals; 308 hydrants; pipe 58 miles, 20 to 4 in dia; 100 valves; pressure 40 to 100 pounds; works owned by city; cost to construct \$300,000; ann. expenses \$35,000; int on bonds \$25,000. Trustees, Michael Moran, Frederick Grote, Fred Baker.*

Fairmount, Grant Co., population 2,800; fire area 600 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 600 ft., inferior 150 ft., cotton good 600 ft.; value of fire department equipment \$2,500; value of buildings occupied \$600; total ann. expenses of department \$150; total membership 48, volunteers; whistle alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, E. E. Carpenter.

WATER SUPPLY—Source, wells in bottom of reservoir, cap 200 barrels; quality of water limestone. (Contemplating waterworks.)

Fort Wayne, Allen Co., population 35,393; mercantile buildings, brick, 3 to 5 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages; hose, cotton good 8,800 ft.; 18 horses; total ann. expenses of department \$25,000; total membership 38, paid full time 21, paid part time 17; Gamewell electric bell alarm; 47 street boxes. Chief engineer, Henry Hilbrecht.*

WATER SUPPLY—Source, wells; system, pumping direct into mains; cap of reservoir 3,000,000 gals; pumping engines, dy cap 9,000,000 gals; 420 hydrants; pipe 47 miles, 4 to 24 in dia; 300 valves; 320 meters; quality of water good; pressure, domestic 50, fire 100 pounds; Edison pressure recording gauge; cost to construct \$280,000; ann. expenses \$12,000. Pres. of com, Chas. McCulloch; clerk, P. J. McDonald.*

Fountain City, Wayne Co., population 800;

buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—ladders and buckets.

WATER SUPPLY—Wells and fountains. Town clerk, R. B. Huff.

Fowler, Benton Co., population 1,285; fire area 600 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft.; value of fire department equipment \$1,200; value of buildings occupied \$200; total membership 25, all volunteers; 1 hook and ladder company. Chief engineer, Frank Ader.

Francesville, Pulaski Co., population 500; buildings, wood, 1 story; wooden roofs permitted; fireworks ordinance; no fire department.

WATER SUPPLY—Wells. J. N. Hayworth, marshal.

Frankfort, Clinton Co., population 8,000; fire area 600 acres; mercantile buildings, brick, stone, wood and iron, 2 stories; private, wood and brick, 1½ and 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose wagon; hose, rubber good 500 ft., rubber inferior 500 ft., cotton good 1,000 ft.; 8 horses, value \$400; value of fire department \$4,500; value of buildings occupied \$8,000; total ann. expenses of department \$2,100; total membership 6, paid full time 4, paid part time 2; telephone alarm. Chief engineer, Geo. W. Bird.

WATER SUPPLY—Source, artesian wells; reservoir and wells for storage; system, pumping direct into mains; pumping engines, dy cap 3,000,000 gals; 98 hydrants, Chapman, 78 valves; pressure, domestic 55, fire 65 to 100 pounds; cost to construct \$120,000; ann. expenses \$3,000. Supt. J. B. Marvin.

Franklin, Johnson Co., population 4,000; fire area 1,500 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft.; value of fire department equipment \$1,500; total membership 16, volunteers. Chief engineer, Jacob Hazelett.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; reservoir cap 200,000 gals; standpipe cap 180,000 gals; dy cap of standpipe 2,000,000; 62 hydrants; pipe 7 miles, 12 to 4 in dia; pressure, domestic 60 to 70, fire 125 pounds; work owned by company; cost to construct \$135,000; cost to date \$128,000. Manager, John J. Hainsworth.

Garrett, De Kalb Co., population 3,500; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 1,500 ft.; value of fire department equipment \$600; value of buildings occupied \$500; total membership 24, volunteers. Chief engineer, Chas. K. Lantz. B. & O. R. R. have a company to protect their property.

WATER SUPPLY—Source, B. & O. R. R. shops; system, pumping direct; 2 large tanks; pipe 1½ miles, 4 in dia. City clerk, W. J. Martin.

Goodland, Newton Co., population 889; mercantile buildings, brick and iron, 2 stories; private, wood, 1-2 stories. No fire department; force pumps; hose, 100 ft.*

WATER SUPPLY—Source, wells. Town clerk, John Carpenter.*

Goshen, Elkhart Co., population 6,033; fire area 26 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,000 ft., leather good 600 ft.; value of fire department equipment \$8,000; value of buildings occupied \$1,000, rent \$25 per annum; total ann. expenses of department \$1,508.43; total membership 48, paid part time; Gamewell electric alarm; 10 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, John Snowbarger.*

WATER SUPPLY—Source, artesian wells; system, direct pumping; dy cap 3,000,000 gals; 113 hydrants; pipe 12½ miles, 6 to 16 in dia; pressure

40 to 100 pounds; ann expenses \$3,500; cost to construct \$80,000; works owned by city. Supt. L. Warner.

Greencastle, Putnam Co., population 7,000; fire area 5 sq miles; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 2,000 ft, cotton good 1,500 ft; 4 horses, value \$900; value of buildings occupied \$7,000; total membership 10, paid full time 3, paid part time 7; Gamewell electric alarm. Chief engineer, Geo. B. Cooper.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 400,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 88; pipe 9 miles, 4 to 12 in dia; 41 valves; service pipe galv iron; pressure 75 to 100 pounds; works owned by company; original cost to construct \$150,000; expenses of construction to date \$130,500; ann expenses \$3,500. Supt. Z. Potter.

Greenfield, Hancock Co., population 4,500; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—1 hook and ladder truck, 1 hose carriage; bell alarm. Mayor, A. J. Herron.

WATER SUPPLY—Source, wells. Waterworks will be built this year.

Greensburg, Decatur Co., population 3,596; fire area 400 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, stanness coupling used; hose, rubber good 1,200 ft, inferior 200 ft; 3 horses; value of fire department equipment \$10,000; value of buildings occupied \$4,000; total ann expenses of department \$2,000; total membership 30, all paid; bell alarm. Chief engineer, Ralph Buckley.*

WATER SUPPLY—Source, well; system, pumping direct; reservoir cap 200,000 gals; pumping engines, dy cap 3,300,000 gals; hydrants 101; pipe 7 1-2 miles, 4 to 12 in dia; 44 valves; service pipe galv iron; pressure, domestic 50, fire 100 pounds; works owned by company. Supt. Richard Thomson.

Hagerstown, Wayne Co., population 873; fire area 3-4 mile sq; mercantile buildings, brick and wood, 3 stories; private, wood, 1 1/2 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 300 ft, inferior 200 ft, rubber good 200 ft; value of fire department equipment \$1,000; value of buildings occupied \$200; total ann expenses of department \$150; total membership 25, all volunteers. Chief engineer, J. C. Davis.

WATER SUPPLY—Source, wells and 18 cisterns. J. M. Hartley, clerk.

Hammond, Lake Co., population 11,000; fire area 400 acres; mercantile buildings, wood and brick, 2 to 4 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, 1 supply wagon; hose, cotton good 2,500 ft, rubber good 500 ft, inferior 200 ft; 3 horses, value \$600; value of fire department equipment \$9,000; value of buildings occupied \$6,000; total ann expenses of department \$3,800; total membership 37, paid full time 5, paid part time 32; Gamewell alarm; 10 street boxes. Chief engineer, Nicholas Kaiser.

WATER SUPPLY—Source, Lake Michigan; system, pumping to standpipe; standpipe 10 x 110 ft; pumping engines, dy cap 4,500,000 gals; hydrants 125; pipe 30 miles, 4 to 18 in dia; valves 60; service pipe galv iron; pressure, domestic 45, fire 90 pounds; works owned by city; original cost to construct \$200,000; ann expenses \$4,500. Supt. E. E. Beck.

Hartford City, Blackford Co., population 5,250; fire area 20 acres; mercantile buildings, brick and stone, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,200 ft, rubber inferior 200 ft; 2 horses, value \$250; value of fire department

equipment \$4,500; value of buildings occupied \$300; total ann expenses of department \$250; total membership 27, paid full time 2, rest volunteers; bell alarm; 1 fire company. Chief engineer, A. J. Clark.

WATER SUPPLY—Source, cisterns.

Hazleton, Gibson Co., population 608. Fire department—1 hand engine worthless; 20 ft ladder; hose, inferior 150 ft.

WATER SUPPLY—Source, river.

Hobart, Lake Co., population 1,300; fire area 8 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 300 ft, rubber good 300 ft, inferior 50 ft; value of fire department equipment \$1,100; value of buildings occupied \$1,300; total membership 21, volunteers; 2 engine companies, 1 hose company. Chief engineer, J. H. Carpenter.

WATER SUPPLY—Source, wells and cisterns. Pres. C. O. Johnson.

Huntington, Huntington Co., population 7,328; fire area 40 acres; mercantile buildings, iron and brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,500 ft, inferior 500 ft; 4 horses, value \$1,000; value of fire department equipment \$10,000; value of buildings occupied \$11,000; total ann expenses of department \$2,100; total membership 96, paid full time 3, paid part time 4, volunteer members 89; bell fire alarm. Chief engineer, Samuel Buchanan.*

WATER SUPPLY—Source, 18 wells and Wabash river; system, pumping direct; pumping engines, dy cap 3,000,000 gals; hydrants 142; pipe 15 1/4 miles, 4 to 14 in dia; 93 valves; service pipe lead; pressure, domestic 80 to 70, fire 80 to 100 pounds; works owned by city; original cost to construct \$100,000; expenses of construction to date \$123,480; ann expenses \$4,000. Supt. Sam'l Buchanan.

Indianapolis, Marion Co., population 143,995; fire area 12,800 acres; special limit consists of a space 1 mile square, covering the business portion of the city; mercantile buildings, brick, 3 and 4 stories; private, brick and wood, 1 and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—7 steam fire engines, 3 chemical engines, 23 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 11 hose wagons; hose, cotton good 23,000 ft, inferior 3,000 ft; 88 horses; expenses \$78,955; total membership 121, paid full time; telegraph alarm; 158 street boxes. Chief appointed by board of public safety, J. H. Webster.

WATER SUPPLY—Source, gallery and artesian well; system, pumping direct; gallery cap 4,000,000 gals; pumping engines, dy cap 37,000,000 gals; hydrants 1,000; pipe 109 miles, 4 to 30 in dia; 600 valves; service pipe lead; pressure, domestic 65, fire 120 pounds; works owned by company; original cost to construct \$2,250,000. Supt. F. A. W. Davis.

Jasper, Dubois Co., population about 1,600; buildings, brick and wood, 1 and 2 stories; shingle roofs. Fire department—1 hand engine.

WATER SUPPLY—Source, wells and cisterns. Town clerk, R. B. Rattel.

Jeffersonville, Clark Co., population 11,586; fire area 338 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages, 1 hose wagon, 1 buggy for chief; hose, rubber good 1,500 ft, rubber inferior 200 ft; 3 horses, value \$350; value of fire department equipment \$8,400; value of buildings occupied \$500; total ann expenses of department \$2,136; total membership 7, paid full time 3, paid part time 4; bell and telephone alarm. Chief engineer, W. T. Patterson.

WATER SUPPLY—Source, Ohio river; system, pumping to standpipe; cap 199,000 gals; Holly Gaskill pumping engines, dy cap 3,000,000 gals; 115 hydrants; pipe 10 miles, 4 to 14 in dia; pressure 54 to 70 pounds. Supt. D. M. Allen.

Kendallville, Noble Co., population 3,300; fire area 10 acres; buildings, brick and wood, 1 to 3 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 hook and

adder truck, 2 hose carts; 1,500 ft hose; value of equipment \$1,700; value of buildings occupied \$600; total membership 33, all volunteers. Chief engineer, F. W. Holzer.

WATER SUPPLY—Source, well and lake; system, pumping direct; well, 20 by 30 ft; pumping engine, dy cap 2,000,000 gals; hydrants 48; pipe 5½ miles, 4 to 12 in dia; 48 valves; service pipe galv iron; pressure, domestic 60, fire 90 to 130 pounds; works owned by city; original cost to construct \$18,000; expenses of construction to date \$300,000; ann expenses \$2,200. Supt, W. S. Osborne.

Kentland, Newton Co., population 918; mercantile buildings, brick and wood, 2 stories; private, wood, 3 stories; tin roofs. Fire department—1 hand engine, 1 hook and ladder truck, 1 chemical engine, 1 hose carriage; hose, cotton good 200 ft, rubber good 350 ft, inferior 150 ft; total membership 13; bell alarm. Chief engineer, T. H. Harnish.

WATER SUPPLY—The construction of water-works is in contemplation.

Knightstown, Henry Co., population 3,000; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck and bucket brigade. W. L. Foxworthy, chairman.

WATER SUPPLY—Source, wells; have decided to put in waterworks; will use standpipe. Water commissioner, A. B. Carroll.

Mekoma, Howard Co., population 10,000; fire area 1,600 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 1½-2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 2 hook and ladder trucks, 8 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, rubber inferior 3,000 ft, cotton good 2,500 ft; 4 horses, value \$800; value of fire department equipment \$25,000; total ann expenses of department \$3,500; total membership 5, paid full time; telephone alarm. Chief engineer, Ed. Shaugman.

WATER SUPPLY—Source, wells and creeks, 20 cisterns; total cap of cisterns 395,000 gals; system, direct pumping; 200 hydrants; 2 pumping engines, dy cap 5,000,000 gals; cost to construct \$102,000; int 5 per cent. C. H. Taylor, supt; works owned by company.*

Ladoga, Montgomery Co., population 1,200; fire area 320 acres, special limit of 3 squares; mercantile buildings, brick, stone and iron, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, cart reel; hose, cotton good 300 ft; value of fire department equipment \$500; buildings rented; total ann expenses of department \$125; total membership 20, all volunteers; 1 fire company. Chief engineer, Sam'l Gill.

WATER SUPPLY—Source, wells and cisterns. J. T. Anderson, town clerk.

Lafayette, Tippecanoe Co., population 18,243. Fire department—1 steam fire engine, 1 chemical engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,200 ft, rubber good 4,000 ft, inferior 2,500 ft; 10 horses; total membership 13, paid full time 6, paid part time 7; telephone and telegraph alarm; 26 street boxes.*

WATER SUPPLY—Source, wells and Wabash river; system, pumping to reservoir, standpipe and direct; reservoir cap 4,300,000 gals; standpipe cap 1,800 gals; pumping engines, dy cap 5,000,000 gals; hydrants 234; pipe 28 miles, 4 to 16 in dia; 1,840 taps; service pipe lead; pressure 65 pounds; 168 valves; water works owned by city; original cost to construct \$300,000; cost to date \$418,787; ann expenses \$9,108. Supt, Edward Cunningham.

Lawrenceburgh, Dearborn Co., population 4,284; fire area 800 acres; buildings, wood and brick, 2 and 3 stories. Fire department—2 steam fire engines, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,000 ft, poor 1,300 ft; 3 horses, value \$600; value of fire department equipment \$12,000; value of buildings occupied \$5,000; ann expenses \$1,500; volunteer members 96, paid full time 1, part time 4; bell alarm. Chief elected by council, Peter Endreass.

WATER SUPPLY—Source, Ohio river; system, pumping to cisterns.

Lebanon, Boone Co., population 5,000; fire

area 1,500 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted except in business part of city; fireworks ordinance. Fire department—1 hand engine, 50 chemical extinguishers, 1 hook and ladder truck; hose, cotton good 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$100; total ann expenses of department \$325; total membership 32, 32 paid part time; bell alarm. Chief engineer, R. B. Harrison.

WATER SUPPLY—Source, wells and cisterns. Contract for works given. J. W. Hill engineer, Glenn Building, Cincinnati, O.

Liberty, Union Co., population 1,314; fire area 604 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon, 1 chemical tank 300 gals; hose, cotton good 200 ft; 4 horses, value \$500; value of fire department equipment \$1,700; value of buildings occupied \$200; total membership 82, volunteers; whistle alarm; 1 fire company. Chief engineer, H. S. Kain.*

WATER SUPPLY—Source, river, wells and cisterns.*

Ligonier, Noble Co., population 2,200; fire area 480 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits, metal used; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, axes, ladders etc; hose, rubber good 500 ft, rubber inferior 1,000 ft; value of fire department equipment \$1,500; total ann expenses of department \$100; total membership 50, volunteers; bell and whistle alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, B. W. Cowley.

WATER SUPPLY—Source, well and river; system pumping to standpipe and direct; cap of standpipe 55,000 gals; pumping engines, dy cap 1,500,000 gals; 26 hydrants; pipe 5½-2 miles, 4 to 8 in dia; 14 valves; pressure 40 to 150 pounds; works owned by city; cost to construct \$10,000; ann expenses \$1,200. Pres of com, Geo. Woodruff; supt, E. E. Reed.

Logansport, Cass Co., population 15,328; fire area 2,680 acres; mercantile buildings, brick and stone, 2 and 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, 1 hose wagon; hose, rubber good 200 ft, cotton good 4,500 ft; 9 horses, value \$1,800; value of fire department equipment \$15,000; value of buildings occupied \$20,000; total ann expenses of department \$11,590; total membership 20, paid full time 10, paid part time 10; Gamewell alarm; 28 street boxes; 4 fire companies. Chief engineer, P. J. Farrell.

WATER SUPPLY—Source, wells and rivers; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 128 hydrants; pipe 20 miles, 2 to 20 in dia; taps 1,304; lead service pipe; pressure, domestic 50, fire 120 pounds; works owned by city; original cost to construct \$175,000; expenses of construction to date \$92,000; ann expenses \$5,000. Supt, H. H. Montfort.*

Loogootee, Martin Co., population 988; mercantile buildings, brick and wood, 1 to 3 stories. No fire department.

WATER SUPPLY—Source, wells; system, pumping by windmill to steel tube; cap 15,750 gals; hydrants 13; pipe 1,500 ft; cost to date about \$2,000. J. N. Breen, mayor.

Madison, Jefferson Co., population 10,000; fire area 1,000 acres; mercantile buildings, brick, 3 stories; private, brick, 2 stories; wooden roofs permitted. Fire department—3 steam fire engines, 1 hook and ladder truck, 9 hose carriages; hose, cotton good 4,000 ft, rubber good 2,000 ft; 12 horses, value \$2,000; value of fire department equipment \$35,000; value of buildings occupied \$20,000; total ann expenses of department \$8,000; total membership 250, all volunteers; stokers, drivers, engineers paid; 4 fire companies; Gamewell alarm; 24 street boxes. Chairman of fire com, Charles Johnson.

WATER SUPPLY—Source, Ohio river; system pumping to reservoir; 3 reservoirs, cap 65,000 bbls.

pumping engines, dy cap 150,000 bbls; 114 hydrants; pipe 13 miles, 4 to 12 in dia; iron service pipe; pressure 68 pounds; works owned city; original cost to construct \$150,000; expenses of construction to date \$200,000; ann expenses \$9,000; int paid on bonds \$4,000. Supt, Chas. E. Goodman.

Marion, Grant Co., population 18,000; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, 4 hose wagons; hose, rubber good 2,500 ft, inferior 1,000 ft; cotton good 2,500 ft; 6 horses, value \$1,000; value of fire department equipment \$8,000; value of buildings occupied \$7,000; total ann expenses of department \$8,470; total membership 41, paid full time 6, paid part time 5, volunteer members 30; Gamewell alarm; 23 street boxes. Chief engineer, John McDonnell.

WATER SUPPLY—Source, wells; system, pumping direct; reservoir cap 220,000 gals; pumping engines; dy cap 3,750,000 gals; 132 hydrants; pipe 15 miles, 4 to 12 in dia; 68 valves; service pipe lead; pressure, domestic 35, fire 70 to 100 pounds; works owned by city; original cost to construct \$45,000; expenses of construction to date \$80,000; ann expenses \$2,500. Supt, D. H. Sanders; B. F. Davis;

Martinsville, Morgan Co., population 3,700; fire area 1 sq from Public Square; mercantile buildings, brick, 1 to 3 stories; private, wood and brick, 1 and 2 stories high; wooden roofs are permitted except in fire limits; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, inferior 300 ft; value of fire department equipment \$1,000; total membership 20, volunteers. Chief engineer, L. B. Hatley.

WATER SUPPLY—Source, driven wells and cisterns; will put in works. Direct pressure.

Michigan City, LaPorte Co., population 10,776; fire area 1 block wide, 10 long; mercantile buildings, brick, 3 stories; private, wood, 1 and 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, cotton good 1,000 ft; inferior 200 ft, rubber good 3,000 ft, inferior 2,000 ft; value of fire department equipment \$15,000; value of buildings occupied \$8,000; ann expenses \$1,100; 107 volunteer members; Gamewell alarm; 17 street boxes. Chief engineer, William Phillips; chairman of fire and water com, Judson Wheeler.

WATER SUPPLY—Source, driven wells; system, pumping to tank and direct; cap 107,000 gals; Worthington and Holly pumping engines, dy cap 3,500,000 gals; 118 hydrants; pipe 13 miles, 6 to 12 in dia; 3 meters; quality of water poor; pressure, domestic 30, fire 120 pounds; works owned by city; cost to construct \$100,000; ann expenses \$6,000. Pres and supt, William Phillips; mayor, Martin T. Krueger; city clerk, Wm. Omby.

Mishawaka, St. Joseph Co., population 4,700; fire area 640 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 3 hose carriages; hose, cotton good 1,000 ft; value of buildings occupied \$10,000; 80 volunteer members; whistle and bell alarm; 3 hose companies. Marshall, Chas. Ernest; #

WATER SUPPLY—Source, St. Joseph river; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 50 hydrants, pipe 9 miles, 16 to 4 in dia; 50 valves, pressure, domestic 45, fire 100 pounds; works owned by city; cost to construct \$48,493; ann expenses \$2,000. Supt, F. A. Blesa.

Mount Vernon, Posey Co., population 6,000; fire area 600 acres; mercantile buildings, brick, 2 and 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,400 ft, inferior 100 ft; value of fire department equipment \$37,000; total ann expenses of department \$1,750; value of buildings occupied \$1,000; total membership 75, 60 volunteers; 15 paid full time; whistle and bell alarm. Chief engineer, Chas. G. Dietrich.

WATER SUPPLY—Source, Ohio river; system, pumping to standpipe; cap 190,000 gals; pumping

engines, dy cap 1,000,000 gals; 75 hydrants, Ludlow; 2 meters; 18 valves; pipe 8 miles; pressure 100 pounds; works owned by company. Pres, J. H. Purdy; supt, W. B. Dunbar.

Muncie, Delaware Co., population 21,165; fire area 50 acres; mercantile buildings, brick, stone and iron, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon, 1 hand reel; hose, cotton good 1,400 ft, inferior 100 ft, rubber good 1,750 ft; 7 horses, value \$1,400; value of fire department equipment \$23,350; value of buildings occupied \$10,000; total ann expenses of department \$3,355.65; total membership 8, paid full time; Gamewell fire alarm; street boxes 32. Chief engineer, G. W. Shepp; sec'y, F. B. Buchanan.

WATER SUPPLY—Source, White river; system, direct pumping; pumping engines, dy cap 5,000,000 gals; hydrants 156; pipe, 16 1-3 miles to 16 in dia; 60 valves; pressure, domestic 50; fire 120 pounds; waterworks owned by company. Supt, Quince Walling.

Napames, Elkhart Co., population 1,495. Fire department not reported.

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 2,000 bbls; Cook pumping engines, dy cap 4,000 bbls; hydrants 17; pipe 2 1-2 miles, 4 to 8 in dia; 4 valves; quality of water soft; pressure, domestic 42, fire 60 pounds; works owned by city; original cost to construct \$12,000; expenses of construction to date \$15,000; int paid on bonds \$900. Supt, Daniel Zork.

New Albany, Floyd Co., population, 30,000; fire area 6 sq miles; mercantile buildings, brick and stone, 1 to 5 stories; private, wood and brick, 1 to 3 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, rubber good 2,000 ft, cotton good 2,000 ft, cotton inferior 500 ft; 13 horses, value \$2,160; value of fire department equipment \$10,500; value of buildings occupied \$16,000; total ann expenses of department \$30,000; total membership 20, paid full time; Gamewell alarm; 30 street boxes. Chief engineer, Wm. Merker.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir; reservoir cap 34,000,000 gals; pumping engines, dy cap 2,500,000 gals; hydrants 175; pipe 24 miles, 1 to 16 in dia; pressure 90 pounds; works owned by company. Supt, W. W. Brooks.

New Carlisle, St. Joseph Co., population 800; mercantile buildings, brick, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 300 ft, rubber good 200 ft, inferior 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total membership 21, volunteers; bell alarm. Chief engineer, J. Ackley.

WATER SUPPLY—Source, driven wells; system, pumping to reservoir; reservoir cap 1,044 bbls; pumping engines one 200 gals per min, other 450; hydrants 18, pipe 2 1-2 miles, 2, 4 and 6 in dia; pressure, domestic 35, fire 80 to 100 pounds; works owned by town; original cost to construct \$15,000; ann expenses \$800. Supt, Chas. Bullard.

New Castle, Henry Co., population 3,000; fire area 80 acres; mercantile buildings, brick, stone in fire limits, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 3 extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, inferior 500 ft; value of equipment \$4,500; expenses for past year \$1,500; total membership 28, volunteers; 2 electric alarms; 31 street boxes. Chief, Ed. E. Scott.

WATER SUPPLY—Source, artesian well; system, pumping direct; reservoir cap 300,000 gals; pumping engines dy cap 1,500,000 gals; 48 hydrants, Holly; pipe 6 miles, 4 to 12 in dia; 16 valves; pressure, domestic 50, fire 80 to 100 pounds; works owned by city; original cost to construct \$30,000; expenses of construction to date \$30,000. Supt, H. L. Shopp.

New Harmony, Posey Co., population 1,500; fire area 185 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood and brick, 1

and 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—2 hand engines, 2 hook and ladder trucks, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 350 ft, rubber good 300 ft, inferior 300 ft, leather good 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,000; total ann. expenses of department \$165; total membership 26, volunteers. Chief engineer, W. O. Tretharwick.

WATER SUPPLY—Source, wells, river and cisterns; system, pumping to standpipe. (Works contemplated.)

Noblesville, Hamilton Co., population 4,000; fire area 3-4 x 1-2 miles; mercantile buildings, wood and brick, 2 and 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted, (metal used); fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,750 ft, cotton inferior 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$800; total membership 31, paid part time; Gamewell and whistle alarm; 5 boxes. Chief engineer, J. G. Essington.

WATER SUPPLY—Source, wells; system, pumping direct; reservoir cap 50,000 gals; pumping engines, dy cap 3,000,000 gals; 77 hydrants; pipe 8 1-2 miles, 4 to 12 in dia; 64 valves; pressure, domestic 40, fire 80 to 100 pounds; works owned by company; cost to construct \$50,000; ann. expenses \$2,000. Advisory com, D. Craycroft, M. Aldred, H. M. Gilchrist.

North Manchester, Wabash Co., population 2,384; fire area 1 mile sq; mercantile buildings, brick, 2 stories; private, principally wood, 1 and 2 stories. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 300 ft, inferior 150 ft, cotton good 300 ft; value of fire department equipment \$5,000; total membership 47, 2 paid full time. Chief engineer, W. E. Thomas.*

WATER SUPPLY—Source, driven wells and river; system, pumping to standpipe and direct; standpipe cap 165,440 gals; pumping engines, dy cap 1,500,000 gals; 64 hydrants; pipe 6 miles, 10 to 4 in dia; 19 valves; pressure, domestic 40, fire 75 pounds; waterworks owned by city; cost to construct \$32,000. Supt, A. E. Stewart.

North Vernon, Jennings Co., population 2,500; fire area 50 squares; buildings, brick, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,000 ft, cotton good 400 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann. expenses of department \$200; total membership 47, paid part time 3; bell alarm. Chief, F. X. Galtwalter.

WATER SUPPLY—Source, Muscatatuck river; system, pumping to standpipe and direct; reservoir cap 13,000,000 gals; standpipe cap 84,000 gals; 14 hydrants; pipe 2 miles, 4, 8 and 10 in dia; 12 valves; pressure, domestic 48, fire 78 pounds; works owned by city; original cost to construct \$15,000. Supt, Howard Newby.

Notre Dame, St. Joseph Co., population 1,000; fire area 1,200 acres; mercantile buildings, brick, 3 to 5 stories; wooden roofs not permitted. Fire department—1 hose carriage, buckets and hand grenades.

Oakland City, Gibson Co., population 2,000; fire area 600 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine; hose, rubber good 300 ft; value of fire department equipment \$700; total ann. expenses of department \$50; bell alarm. Chief engineer, P. H. Lamb.

WATER SUPPLY—Source, wells and cisterna.

Oldenburgh, Franklin Co., population 690; fire area 160 acres; buildings, brick, 2 to 4 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck 1 hose carriage; hose, rubber good 600 ft, inferior 100 ft; value of fire department equipment \$1,600; value of buildings occupied \$3,000; total ann. expenses of department \$200; total membership 94, volunteers. J. B. Enneking.*

WATER SUPPLY—Source, stream; 7 cisterns. Town clerk, John E. Baumer.*

Osgood, Ripley Co., population 1,500; fire area

5 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft; value of equipment \$1,500; value of buildings occupied \$1,000; expenses for past year \$1,800; total membership 24, volunteers. Chief engineer, J. O. Row.

WATER SUPPLY—Source, wells.*

Peru, Miami Co., population 9,000; fire area 3 sq miles; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose cart; hose, rubber good 1,500 ft, cotton good 800 ft; 2 horses, value \$450; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total membership 15, paid full time 4, paid part time 3, volunteer members 8; Gamewell alarm; 12 street boxes. Chief engineer, Alexander Appel.

WATER SUPPLY—Source, Wabash river; system, pump to reservoir and direct; reservoir cap 1,500,000 gals; pumping engines, dy cap 2,500,000 gals; 118 hydrants; pipe 14 miles, 6 to 16 in dia; 98 valves; pressure 35 to 75 pounds; cost to construct \$110,000; cost to date \$190,000; ann. expenses about \$3,000. Supt, Jno. Stewart.

Petersburg, Pike Co., population 2,000; fire area 500 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories. Fire department—1 hand engine, 1 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, cotton 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$800; total membership 32; volunteers; bell alarm. Chief engineer, S. B. Smith.

WATER SUPPLY—Source, 2 cisterns of 300 bbls each cap.

Piercetown, Kosciusko Co., population 897; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 10 chemical extinguishers, 1 hose carriage; hose, rubber good 400 ft, inferior 400 ft; value of fire department equipment \$1,000; value of buildings occupied \$300; total membership 40, volunteers. Chief, F. H. Foster.

WATER SUPPLY—Source, 8 cisterns, cap 125,000 gals. F. H. Foster.

Plymouth, Marshall Co., population 3,500; fire area 100 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hook and ladder trucks, 3 hose carriages; hose, cotton good 900 ft, inferior 300 ft, rubber good 200 ft, inferior 400 ft; value of fire department equipment \$3,500; total ann. expenses of department \$100; total membership 78, volunteers; bell and whistle alarm. Chief engineer, F. H. Kuhn.

WATER SUPPLY—Source, wells; system, pumping direct; reservoir cap 200,000 gals; pumping engines, dy cap 1,500,000 gals; 40 hydrants; pipe 6 miles, 4 to 10 in dia; galv iron service pipe; 12 valves; pressure, domestic 60, fire 80 to 150 pounds; works owned by city; original cost to construct \$80,000; expenses of construction to date \$93,000; ann. expenses \$2,000. Supt, A. R. Underwood.

Portland, Jay Co., population 4,000; fire area 500 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted, (tin and iron used); fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck; 2 horses, value \$500; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann. expenses of department \$1,300; total membership 30, paid full time 2, paid part time 28; whistle and bell alarm; 2 fire companies, 1 engine company, 1 hook and ladder company. Chief engineer, B. G. Arthur.*

WATER SUPPLY—Source, wells and cisterns; will build waterworks.

Princeton, Gibson Co., population 4,000; fire area 1,500 acres; mercantile buildings, brick, stone, iron and wood, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck; 3 hose carriages, all kinds; hose, cotton good 1,500 ft, inferior 300 ft; value of fire

department equipment \$3,000; value of buildings occupied \$5,000; total membership 19, volunteers; bell alarm. Chief engineer, W. A. Moesman.

WATER SUPPLY—Source, Patoka river; system, pumping to standpipe; standpipe cap 175,000 gals; pumping engines, dy cap 2,500,000 gals; 81 hydrants; pipe 9 miles, 12 to 4 in dia; pressure, domestic 75, fire 75 pounds; waterworks owned by company; cost to construct \$55,000. Supt. S. F. Ghmore.

Kemasaer, Jasper Co., population 1,455; fire area 320 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 300 ft; value of buildings occupied \$2,000; total ann expenses of department \$1,300; total membership 30, paid part time; bell alarm; 1 fire company. Chief engineer, Ed. P. Honan.

WATER SUPPLY—Source, wells and cisterns. Town Clerk, Chas. G. Splitter.

Richmond, Wayne Co., population 16,608; fire area 2,500 acres; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 4 chemical hand extinguishers, 1 hook and ladder truck, 5 hose carriages, 3 hose wagons; hose, cotton good 4,300 ft, inferior 200 ft, rubber good 400 ft; 10 horses, value \$2,000; value of fire department equipment \$30,000; value of buildings occupied \$15,000; total ann expenses of department \$10,043.81; total membership 21, paid full time 9, paid part time 12; Gamewell alarm; 45 street boxes; 5 fire companies. Chief engineer, Jas. Parsons.

WATER SUPPLY—Source, springs; system, pumping to reservoir and direct; cap of reservoir 11,000,000 gals; pumping engines, dy cap 4,000,000 gals; 232 hydrants; pipe 30 miles, 6 to 20 in dia; 126 valves, Ludlow; 70 meters; pressure 45 to 150 pounds; ann expenses \$10,000. Pres. D. K. Zeller; supt, F. M. Curtis.*

Rising Sun, Ohio Co., population 2,000 fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—4 Hemington engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft, rubber good 1,600 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$225; membership 30, volunteers; bell alarm; 1 fire company. Chief engineer, W. H. Whitlock.

WATER SUPPLY—Source, Ohio river; system, pumping to 8 cisterns; waterworks owned by city; original cost to construct \$4,000. Town clerk, A. B. Cooper.

Roann, Wabash Co., population 700; fire area 160 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 25 chemical extinguishers, 1 hook and ladder truck; hose, cotton good 300 ft; value of fire department equipment \$1,600; value of buildings occupied \$300; total membership 50; volunteers. Chief engineer, Zadoc Lavengood.

WATER SUPPLY—Source, well, pumping to standpipe, cap 16,960 gals; hydrants 3; works owned by city; cost to construct \$9,000. Pres. O. M. Oswald.

Rochester, Fulton Co., population 2,800; fire area 700 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 3 stories; wooden roofs not permitted; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 200 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,500; total ann expenses of department \$200; total membership 65, volunteer; 3 fire companies, 1 engine company, 2 hose companies. Chief engineer, F. M. Reid.*

WATER SUPPLY—Source, wells. Town clerk, Joseph Ault. (Will put in system at once).*

Rockport, Spencer Co., population 2,314; fire area 700 acres; mercantile buildings, brick, 3 and 4 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted. Fire department—12 chemical hand extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good

500 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,000; total membership 25, volunteers; bell alarm; 2 fire companies. Chief engineer, O. L. Nester.*

WATER SUPPLY—Source, Ohio river; system, gravity; pumping to standpipe and direct; standpipe cap 30,000 gals; 2 pumping engines, dy cap 1,750,000 gals; hydrants 19, pipe 2½ miles, 4 in and 8 in dia; 10 valves; service pipe galv iron; pressure, domestic 40, fire 40 to 700 pounds; works owned by company; original cost to construct \$25,000. Supt. A. H. Kennedy.

Rushville, Rush Co., population 4,800; fire area 1,500 acres; mercantile buildings, wood, stone, iron and brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, one new, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber inferior 900 ft, cotton good 1,000 ft, new 500 ft; 4 horses, value \$400; value of fire department equipment \$8,000; value of buildings occupied \$2,500; total ann expenses of department \$4,000; total membership 14, paid full time 3, paid part time 11; Gamewell alarm; street boxes 15. Chief engineer, James K. Mattook.

WATER SUPPLY—Source, wells and cisterns.

Salem, Washington Co., population 2,000; mercantile buildings, brick, and stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam engine, 1 chemical engine, 2 hose carriages; hose, rubber good 1,030 ft; poor 1400 ft; cotton good, 500 ft; value of equipment \$10,000; value of buildings \$4,000; total membership 40, all volunteers. Chief, M. K. Chapman.

WATER SUPPLY—Source, springs; system, gravity; pumping to reservoir and direct; reservoir cap 250,000 gals; pumping engines, dy cap 300,000 gals; hydrants 31; pipe 6 1-8 miles, 4 to 8 in dia; service pipe lead and wrought iron; pressure, domestic 20 to 70, fire 30 to 90 pounds; works owned by city; original cost to construct \$15,000; expenses of construction to date \$850; ann expenses \$975. Supt. E. Craycroft.

Scottsburg, Scott Co., population 618; buildings, frame. Fire department—buckets and ladders; steam whistle and bell alarm.

WATER SUPPLY—Source, wells.

Seymour, Jackson Co., population 5,337; fire area 220 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton inferior 400 ft, rubber good 1,400 ft; inferior 1,400 ft; value of fire department equipment \$3,500; value of buildings, 2 owned, \$3,000; total membership 25, paid part time. Chief, James Degolyer.*

WATER SUPPLY—Source, East branch White river; system, pumping to standpipe and direct; cap of standpipe 150,400 gals; pumping engines, dy cap 3,000,000 gals; 110 hydrants, pipe 11 miles, 4 to 12 in dia; 43 valves; pressure, domestic 55, fire 100 to 120 pounds. Supt. D. W. Johnson.

Shelbyville, Shelby Co., population 7,000; fire area 1,000 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all 1½ in dia; 2 hose wagons; hose, rubber good 2,200 ft; inferior 800 ft; value of fire department equipment \$6,000; value of buildings occupied \$4,000; total ann expenses of department \$600; total membership 20, paid full time; Gamewell alarm; street boxes 18; 1 fire company. Chief engineer, Geo. Deltzer.*

WATER SUPPLY—Source, well; system, gravity; standpipe cap 500,000 gals; Worthinton; pumping engines, dy cap 2,000,000 gals; hydrants 86, Mathews; pipe 9 miles, 4 to 12 in dia; 25 valves; 4 meters; taps 400; pressure, domestic 82, fire 130 pounds; works owned by company; original cost to construct \$125,000; ann expenses \$5,000. Supt. F. M. Nuckolls.*

South Bend, Saint Joseph Co., population 25,000; fire area 3,000 acres; mercantile buildings, brick, 2 to 4 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 combined apparatus with 40 gals tank 800 ft hose, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and

ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, cotton good 6,800 ft; 14 horses, value \$150 each; value of fire department equipment \$35,500; value of buildings occupied \$14,100; total ann expenses of department \$17,000; total membership 38, paid full time 24, paid part time 11; Gamewell alarm; street boxes 48; private 10. Chief engineer, Isaac Hutchins.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe; reservoir cap 3,000,000 gals; standpipe cap 20,000 gals; pumping engines, dy cap 12,000,000 gals; hydrants 200, pipe 33 miles, 4 to 20 in dia, 50 valves; pressure, domestic 75, fire 95 pounds; works owned by city; original cost to construct \$250,000; ann expenses \$12,000. Chairman of com, Chas. A. Buhmer; supt, Jno. A. Graham.

Spencer, Owen Co., population 1,888; fire area 640 acres; mercantile buildings, brick, stone and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft, rubber good 550 ft; value of fire department equipment \$1,000; value of building occupied \$300; total ann expenses of department \$200; total membership 40, volunteers; bell alarm. Chief engineer, J. T. Curtis.*

WATER SUPPLY—Source, river, creek and cisterns. Town clerk, J. A. Raper.*

Sullivan, Sullivan Co., population 2,290; fire area 400 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,300 ft, 700 ft cotton good; value of fire department equipment \$10,000; value of buildings occupied \$1,500; total membership 30, paid 25; bell alarm; 2 fire companies. Chief engineer, W. M. Wilson.

WATER SUPPLY—Source, wells and 5 cisterns. City civil engineer, E. S. Crowder.

Sunman, Ripley Co., population 878; fire area 25 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hose carriage, hooks and ladders; hose, rubber good 400 ft, inferior 200 ft; value of fire department equipment \$2,000; value of buildings occupied \$100; total ann expenses of department \$15; 50 volunteer members; bell alarm. Chief engineer, Fred Groekloose.

WATER SUPPLY—Source, cisterns.

Tell City, Perry Co., population 3,000; fire area 350 acres; buildings, brick and frame, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,000 ft, 700 ft poor; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 83, volunteers; bell alarm. Chief engineer, Henry Bader.

WATER SUPPLY—Source, 19 cisterns, supplied by gutters and roof spouts; dy cap of cisterns 100,000 gals. City clerk, Chas. Ebersold.

Terre Haute, Vigo Co., population 35,000; fire area 60 blocks; mercantile buildings, brick and stone, 3 and 4 stories; private, wood and brick, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, all kinds, 6 hose wagons; hose, cotton good 5,000 ft, inferior 300 ft, rubber good 1,800 ft; 27 horses, value \$4,500; value of fire department equipment \$41,000; value of buildings occupied \$82,000; total ann expenses of department \$42,000; total membership 50, paid full time; Gamewell alarm; 80 street boxes; 12 fire companies, 2 engine companies, 2 hook and ladder companies, 8 hose companies. Chief engineer, John Kennedy.

WATER SUPPLY—Source, Wabash river; system, pumping direct; reservoir cap 800,000 gals; pumping engines, dy cap 16,000,000 gals; 651 hydrants, pipe 43 miles, 4 to 24 in dia; 318 valves; pressure, domestic 60, fire 120 pounds; works owned by company; original cost to construct \$800,000; ann expenses \$21,000. Supt, L. L. Williamson.

Tipton, Tipton Co., population 3,500; fire area 700 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not

permitted; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, rubber good 200 ft; value of fire department equipment \$2,000; total membership 20, volunteers; bell alarm. Chief engineer, John Steiger.*

WATER SUPPLY—Source, wells. City clerk, J. E. Anderson.

Union City, Randolph Co., population 6,000; fire area 25 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 4 chemical extinguishers, 3 hose carriages, all kinds, 3 hose wagons; hose, rubber good 1,500 ft, inferior 150 ft, cotton good 400 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 40, paid part time; electric bell and whistle alarm; 1 street box. Chief engineer, John Caron.

WATER SUPPLY—Source, wells; system, 42 feet under ground; pumping direct; pumping engines, dy cap 3,000,000 gals; 50 hydrants; pipe 6 miles, 4 to 14 in dia; pressure, domestic 40, fire 10 pounds; waterworks owned by city; ann expenses \$3,500. Supt, Geo. T. Day.

Valparaiso, Porter Co., population 5,000; fire area 500 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—2 hook and ladder trucks, 3 hose carriages; hose, cotton good 1,000 ft, rubber good 1,000 ft, inferior 2,000 ft; value of fire department equipment \$1,400; value of buildings occupied \$4,000; total membership 75; bell and telephone alarm; total no of fire companies 4. Chief engineer, L. T. White.*

WATER SUPPLY—Source, Flint lake, 2½ miles from city; system, direct; pumping engines, dy cap 1,500,000 gals; 80 hydrants; pipe 18 miles, 4, 6, 8, 10 and 12 in dia; 55 valves; pressure, domestic 30 to 35, fire 60 to 80 pounds; cost to construct \$100,000; expenses of construction to date \$150,000; ann expenses about \$5,000. Supt, Don A. Salver.

Vevay, Switzerland Co., population 1,800; mercantile buildings, brick and wood, 2 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 2 hook and ladder trucks, 2 hose carriages, all kinds; hose, rubber good 300 ft; value of fire department equipment \$1,800; value of buildings occupied \$500; total ann expenses of department \$800; total membership 30, volunteers; bell alarm. Chief engineer, O. S. Johnson.

WATER SUPPLY—Source, cisterns, river and wells. Mayor, D. G. Manning.

Vincennes, Knox Co., population 10,000; mercantile buildings, brick, 2 stories; wooden roofs permitted outside fire limits. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2000 ft; 5 horses, value \$1000; value of fire department equipment \$6200; value of building occupied \$5000; total ann expenses of department \$4200; total membership 18, paid full time 5, paid part time 13; Gamewell alarm; no of street boxes 23; total no of fire companies 3. Chief engineer, Geo. Fendrick.

WATER SUPPLY—Source, Wabash River and 2 wells; system, pumping to standpipe and direct; standpipe cap 600,000 gals; 2 pumping engines, dy cap 4,000,000 gals, hydrants 153, pipe 18 miles, 6 to 18 in dia, 75 valves, service pipe galv iron; pressure, domestic 75, fire 150 pounds, works owned by company. Supt, L. J. Weisenberger.

Wabash, Wabash Co., population 7,000; fire area 400 acres; mercantile buildings, brick, stone and wood, 2 to 4 stories; roofs are tin, slate and shingle. Fire department—1 hand engine not used, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 1,000 ft; 4 horses, value \$800, value of department equipment \$6,500; value of buildings occupied \$13,000; total ann expenses of department \$7,000; total membership 21, paid full time 120 volunteers; bell alarm; total no of fire companies 2. Chief engineer, Jno. Hepskind.

WATER SUPPLY—Source, flowing wells; system, pumping to standpipe; cap 380,000 gals; reservoir cap 1,750,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 143, Ludlow pipe 13 miles, 12 to 6 in dia; 66 valves; pressure 50 to 75 pounds; cost

to construct \$130,000; ann expenses \$3500. Supt, W. S. Stitt.

Warsaw, Kosciusko Co., population 4000; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,500 ft; value of fire department equipment \$4500; value of buildings occupied \$3,500; total membership 40, paid part time 8, volunteer members 40; 4 fire companies. Chief engineer, Wm. Conrad.

WATER SUPPLY—Source, artesian wells; system, pump to standpipe and direct; pumping engines, dy cap 1,000,000 gals; 59 hydrants, pipe 7 miles, 4 to 8 in dia, 28 valves; pressure, domestic 45, fire 80 pounds; cost to construct \$70,000; ann expenses \$5,000. Pres, B. May; supt, J. G. Sutton.*

Washington, Davies Co., population 8000; fire area 500 acres; mercantile buildings, brick, iron and stone, 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 700 ft, rubber inferior 300 ft, cotton inferior 200 ft, linen good 700 ft; 2 hoses, value \$125; value of fire department equipment \$4,000; value of buildings occupied \$10,000; total ann expenses of department \$500; total membership 18; paid part time; bell alarm. Chief engineer, J. H. Orth.*

WATER SUPPLY—Source, river; system, pumping from river and cistern to standpipe; pumping engines, dy cap 1,500,000 gals; 124 hydrants; pipe 13 1/4 miles, 8 to 12 in dia; 57 gates; pressure 50 to 150 pounds, works owned by company, cost to date \$100,000; ann expenses \$1,200. Supt, B. R. McGowan.

INDIAN TERRITORY.

Fort Supply, Cherokee Co., population 400; fire area 40 acres; mercantile buildings, wood, 1 story; private, wood, 1 1/2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; 140 buckets; hose, cotton good 1000 ft; value of fire department equipment \$1,500; 1 hand ladder co., 2 hose co's. 1 bucket brigade, membership 200, bugle call alarm. Fire Marshal, Capt. Wm. Anman, 13th Inf.

WATER SUPPLY—Source, springs, system, gravity, pumping to reservoir and direct; reservoir cap 80,000 gals; pumping engines, dy cap 80,000 gals; hydrants 10, pipe 5 miles, 4 in dia; service pipe iron; waterworks owned by U. S. pressure 20 lbs domestic, 60 lbs fire, ann expenses \$2,700.

Lehigh, Choctaw Co., population about 5000; buildings, iron and wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—The mines are well equipped with steam pumps and hose; mostly all the stores are supplied with hand grenades.

WATER SUPPLY—Source, springs.

McAlester, Choctaw Co., population 500; fire

Waterloo, De Kalb Co., population 1,500; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck with buckets; 1 hose carriage; hose, rubber good 800 ft, 300 ft cotton; value of equipments \$1,000; value of buildings \$400 total membership 45, volunteers. Chief engineer, H. K. Tetr.

WATER SUPPLY—Source, 17 cisterns, total cap 30,000 gals.

Whiting, Lake Co., population 3,000; fire area 80 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—10 hook and ladder trucks, 17 hose carriages, all kinds; hose, cotton good 8,400 ft, 200 ft owned by volunteers; value of fire department equipment \$600; value of buildings occupied \$125; total ann expenses of department \$900; total membership 12, volunteers; apparatus, except 1 hose cart, owned by S. O. Co. Chief engineer, W. S. Rhesan.

WATER SUPPLY—Source of supply, Standard Oil Works, 3 pumping engines, pressure, fire 100 pounds.

Winamac, Pulaski Co., population 1,300; fire area 11 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—bucket brigade.*

WATER SUPPLY—Source, wells and cisterns. Town clerk, Mark Falvey, Jr.*

Zionsville, Boone Co., population 860; fire area 20 acres; buildings, brick, 1 and 2 stories. Fire department—1 hand engine, 1 hose carriage; hose, linen good 200 ft; value of fire department equipment \$200. Chief engineer, M. V. Raina.*

WATER SUPPLY—Source, well. Town clerk, C. R. Sullivan.*

area 1 sq mile; mercantile buildings, stone and wood, 2 to 4 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—several chemical extinguishers.

WATER SUPPLY—Source, springs.

Muskogee, Creek Nation, population 3000; fire area 1 sq mile; mercantile buildings, brick and wood 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber inferior 500 ft, cotton good 1000 ft; 1 hose, value \$75, value of fire department equipment \$2,700; value of buildings occupied \$300; bell alarm, expenses last year \$1,280, membership 18, paid full time 2, 16 volunteers, Chief W. A. Lubbea.

Okmulgee, Creek Co., population 500; fire area 1 mile sq; mercantile buildings, stone and wood, 1 and 2 stories private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; no organized fire department.

WATER SUPPLY—Source, brooks.

IOWA.

Adel, Dallas Co., population 995; fire area 160 acres; mercantile buildings, brick, 1 to 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 1 hose cart; hose, rubber good 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total ann expenses of department \$400; 60 members, paid part time, 20 volunteers; bell alarm. Chief engineer, S. L. Ward.*

WATER SUPPLY—Source, cisterns and 4 good wells. City clerk, M. S. Ish.

Albia, Monroe Co., population 3,400; fire area 2 miles; sq; mercantile buildings, brick, 2 and 3 stories; private, wood; wooden roofs are permitted; causes of fire investigated. Fire department—2 steam fire engines, 2 hand engines, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,500 ft, cotton inferior 500; value of fire department equipment \$10,000; value of buildings occupied \$8,000; total ann expenses of de-

partment \$150; total membership 27, volunteers; bell alarm. Chief engineer, W. E. Dougherty.

WATER SUPPLY—Source, 5, 1,200 bbls cisterns and wells.

Algona, Kossuth Co., population 2,068; buildings, wood and brick, 2 stories; fireworks ordinance. Fire department—5 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 3 force pumps; hose, rubber good 400 ft, cotton good 300 ft; value of fire department equipment \$2,500; total membership 25, all volunteers; bell and whistle alarm. Chief engineer, A. F. Dailey.

WATER SUPPLY—Source, wells in center of city; system, pumping to standpipe; standpipe cap 90,000 gals; pumping engines, dy cap 90,000 gals; 16 hydrants; pipe 2 1/4 miles, 8 and 4 in dia; 6 valves; service pipe, lead and wrought iron; pressure, domestic 30, fire 43 pounds; works owned by city; original cost to construct \$10,000; expenses of construction to date \$5,000; ann expenses \$1,000; int on bonds 5 per cent. Supt, A. F. Dailey.

Alta, Buena Vista Co., population 1,000; fire

area 320 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 300 ft, rubber good 300 ft, inferior 100 ft; value of buildings occupied \$800; total membership 34, all volunteers; bell alarm. Chief engineer, Patrick Morrissey.*

WATER SUPPLY—Source, cisterns, 600 gal cap.

Altoona, Polk Co., population 326; fire area 125 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. No fire department—1 chemical extinguisher, 1 hand hose cart, 2 long ladders; hose, rubber good 100 ft.

WATER SUPPLY—Source, wells.

Ames, Storey Co., population 2,489; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, 500 ft linen.

WATER SUPPLY—Source, deep wells; system, pumping to tank; tank cap 40,000 gals; 5 hydrants; pipe 1,200 ft, 8 in dia; pressure 45 pounds; works owned by city; (Mains by property owners); original cost to construct \$5,500. Mayor, P. Sheldon; city clerk, A. B. Maxwell.

Anamosa, Jones Co., population 2,078; fire area 200 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,400 ft; value of fire department equipment \$2,500; value of buildings occupied \$600; total ann expenses of department \$375; total membership 80, all volunteers; bell alarm. Chief engineer, W. A. Cunningham.*

WATER SUPPLY—Source, Wapsipawac river; system, pumping to reservoir; reservoir cap 80,000 gals; pumping engine, hour cap 1,800 gals; 10 hydrants; pipe 2½ miles, 6 to 4 in dia; 12 valves; service pipe galv iron; pressure, domestic 40, fire 100 pounds; works owned by company; original cost to construct \$13,000; expenses of construction to date \$24,000; ann expenses \$1,100. Supt, J. C. Griffith.

Atlantic, Cass Co., population 6,000; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, cotton good 2,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department \$800; membership 80, volunteer; electric alarm; 4 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, Frank Cain.*

WATER SUPPLY—Source, wells; system, pumping direct; pumping engine, dy cap 3,000,000 gals; 104 hydrants; pipe 9 miles, 4 to 16 in dia; 31 valves; pressure, domestic 80, fire 120 to 130 pounds; waterworks owned by company; cost to construct \$72,000; cost to date \$100,000; ann expenses \$8,000. Supt, A. M. Nipper.

Audubon, Audubon Co., population 2,000; fire area 100 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, cotton inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 50, volunteers; bell alarm; 1 hook and ladder company, 3 hose companies. Chief engineer, E. J. Freeman.*

WATER SUPPLY—Source, wells and creek; system, gravity, pumping to reservoir; reservoir cap 100,000 gals; pumping engine, hour cap 30,000 gal; hydrants 13; pipe 2½ miles, 4 and 6 in dia; 3 valves; service pipe iron; pressure, domestic 70, fire 125 pounds; works owned by city; cost to construct \$12,000; ann expenses \$800. Chairman of com, Chas. VanGerder; supt, E. J. Freeman.*

Avesa, Pottawattamie Co., population 2,231; fire area about 160 acres; mercantile buildings, brick, 2 stories; private, wood (outside fire limits), 1 ½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 5 chemical extinguishers, 2 hose carriages; hose, cotton good 1,000 ft, 300 ft poor, rubber good 500 ft; value of fire department equip-

ment \$7,000; value of buildings occupied \$1,000; total ann expenses of department \$350; total membership 18, volunteers; bell alarm; 1 engine and hose company. Chief engineer, Ed. Blade.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; cap 59,672 gals; pumping engine, dy cap 750,000 gals; hydrants 25; pipe 2 ¾ miles, 8, 6, 4 in dia; pressure 50 to 70 pounds; works owned by city; cost to construct \$14,500; ann expenses \$1,000. Supt, W. H. Schilling.

Bedford, Taylor Co., population 1,643; fire area 6 blocks; mercantile buildings, brick, 2 stories; private, wood, 1 ½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, hook and ladders on engine; hose, rubber good 60 ft, inferior 50 ft; 2 horses, value \$300; value of fire department equipment \$1,000; value of buildings occupied \$5,000; total membership 20, all volunteers; bell alarm. Chief engineer, J. B. Derriksan.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 3,000 gals; waterworks owned by city. City civil engineer W. T. Randolph.

Belle Plaine, Benton Co., population 3,300; fire area ½ x ¼ miles, mercantile buildings, brick, 1½ and 2 stories; private, wood 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine; 1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 800 ft, inferior 200 ft; 4 horses, value \$500; value of fire department equipment \$5,300; value of buildings occupied \$4,000; total ann expenses of department \$724; membership 65, paid part time 5, volunteer members 60; bell and whistle alarm; 2 engine companies, 1 hook and ladder company. Chief engineer, J. E. Ortscheid.*

WATER SUPPLY—Source, 6 artesian wells and cisterns.*

Bellevue, Jackson Co., population 1,450; fire area 3-4 mile; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, wood, brick and stone; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$800; total ann expenses of department \$250; membership 15, volunteers; bell alarm. Chief, August Maurer.

WATER SUPPLY—Source, river, wells and 2 public cisterns supplies from roofs, cap of cisterns 600 bbls dy; (city will put in waterworks this summer.)

Belmond, Wright Co., population 1,500; fire area 200 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted (principally metal in fire limits); fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, rubber inferior 350 ft, cotton good 300 ft; value of fire department equipment \$1,000; value of buildings occupied \$250, total ann expenses of department \$100; total membership 28, volunteers; bell alarm. Chief engineer, D. E. Packard.

WATER SUPPLY—Source, well.

Blairtown, Benton Co., population 583; buildings, wood, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine.*

WATER SUPPLY—Source, wells. Mayor, M. D. Barney; town clerk, P. H. Lynch.*

Bloomfield, Davis Co., population 2,232; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, combined with chemical, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$800; value of buildings occupied \$350; total membership 35, volunteers; bell alarm. Chief engineer, A. J. Clark.

WATER SUPPLY—Source, deep well; system, pumping direct and to tank; reservoir 12 x 30 ft; standpipe cap 18 x 24 ft; hydrants 12; pipe 5,000 ft, 4 to 8 in dia; pressure, fire 250 pounds; waterworks owned by city; original cost to construct \$8,500. Chairman of com, J. R. Sheaffer.

Boone, Boone Co., population 3,000; fire area 3 acres; mercantile buildings, brick and stone, 2

and 3 stories; private, wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 2 hook and ladder trucks, 3 hose carriages; hose, cotton good 1,800 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; total ann expenses of department \$250; total membership 72, paid part time 2, volunteer members 70; bell alarm; 6 fire companies, 1 engine company, 2 hook and ladder companies, 3 hose companies. Chief engineer, A. P. Fogg. *

WATER SUPPLY—Source, artesian wells; system, gravity and direct pumping; pumping engine, dy cap 50,000 gals; 21 hydrants; pipe 15 1/2 miles, 6 to 8 in dia; 5 valves; pressure 45 to 130 pounds; cost to construct \$21,000; ann expenses \$1,250. Supt, R. Sutton. *

Brighton, Washington Co., population 800; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—Ladders and buckets are used. Chief engineer, W. Andrews. *

WATER SUPPLY—Source, wells. Mayor, S. E. Woodford; village clerk, Jas. H. Auld. *

Brooklyn, Poweshiek Co., population 1,400; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 500 ft, inferior 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$3,000; membership 25, paid part time 2; bell and whistle alarm; 1 engine company, 1 hose company. Chief engineer, E. H. Skinner.

WATER SUPPLY—Source, private wells and public cisterns, cap 800 gals. Mayor, E. H. Skinner. *

Brush Creek, Fayette Co., population 593; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted but tin used mostly; no fireworks ordinance. No organized fire department; about 6 chemical extinguishers, hand grenades and ladders. City marshal, J. H. Rowell.

WATER SUPPLY—Source, wells. City clerk, H. S. Palmer.

Burlington, Des Moines Co., population 24,000; fire area 1,600 acres; mercantile buildings, brick, wood and stone, 1 to 6 stories; private, brick and wood, 1 to 3 stories; metal roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, all kinds; hose, cotton good 11,400 ft, rubber good 700 ft; 19 horses; value of fire department equipment \$20,000; value of buildings occupied \$3,000; total ann expenses of department \$15,500; total membership 27, paid full time; Gamewell alarm; 20 street boxes. Chief engineer, Wm. Franklin. *

WATER SUPPLY—Source, Mississippi river; system, pumping direct; pumping engine, dy cap 12,500,000 gals; 218 hydrants; pipe 20 miles, 4 to 16 in dia; 150 valves; pressure, domestic 100, fire 120 to 160 pounds; works owned by company; cost to construct \$185,000. Supt, Chas. Hood. (Gravity filter plant with a cap of 8,500,000 gals and reservoir of 500,000 gals is being completed.)

Carroll, Carroll Co., population 3,500; fire area 80 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,600 ft, rubber poor 600 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$350; total membership 75, all volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, R. E. Coburn.

WATER SUPPLY—Source, Coon river, located 7 miles N. W. of city; system, pumping to reservoir; reservoir cap 3,300 bbls; pumping engine, dy cap 10,000 bbls; hydrants 22; pipe 2 1/2-2 miles, 6 and 8 in dia; 7 valves; pressure, domestic 60, fire 75 pounds; waterworks owned by city; cost to construct \$20,000; ann expenses \$1,000. Supt, Chas. Hamilton.

Cedar Falls, Blackhawk Co., population 4,000; fire area 160 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance;

causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages; hose, rubber inferior 700 ft, cotton good 2,500 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,000; total ann expenses of department \$1,500; membership 97, volunteers; bell and whistle alarm; 3 fire companies. Chief engineer, M. Hammond.

WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 100,000 gals; pumping engine, dy cap 2,500,000 gals; hydrants 5; pipe 7 1/2 miles, 4, 6, 8, 10 in dia; 20 valves; tape 300; galv iron service pipe; pressure 85 pounds; works owned by city; original cost to construct \$20,000; expenses of construction to date \$40,000; ann expenses \$2,800. Chairman of com, Geo. S. Morrin; supt, C. M. Wyth. *

Cedar Rapids, Linn Co., population 25,000; mercantile buildings, principally brick; private, wood; wooden roofs permitted. Fire department—2 hook and ladder trucks, 11 hose carriages, all kinds, siamese couplings; hose, 7,000 ft good; total ann expenses of department \$5,500; total membership 300, paid full time 1; telegraph and telephone alarm; 28 street boxes; 50 fire police. Chief engineer, L. M. Ayers.

WATER SUPPLY—Source, Cedar river and wells; system, pumping direct; 2 pumping engine, dy cap 6,000,000 gals; hydrants 178; pipe 127 miles, 4 to 20 in dia; 400 valves; service pipe lead; pressure, domestic 60, fire 120 pounds; works owned by company; original cost to construct \$100,000; expenses of construction to date \$300,000. Supt, Chas. J. Fox.

Centre Point, Linn Co., population 732; fire area 1/2 mile square; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 1 hose carriage; hose, cotton good 400 ft, rubber good 400 ft; value of equipment \$1,200; value of buildings \$400; total membership 18, all volunteers. Chief engineer, F. E. Gitchell.

WATER SUPPLY—Source, cisterns and wells. Town Clerk, A. E. Dunbar.

Centerville, Appanoose Co., population 6,000; fire area 2 miles sq; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, cotton inferior 300 ft; 3 horses, value \$300; value of fire department equipment \$10,000; value of buildings occupied \$5,000; total ann expenses of department \$1,000; total membership 50, paid full time 1, paid part time 49; bell alarm; 2 fire companies, 1 engine company, 1 hook and ladder company. Chief engineer, John Kearville, Jr.

WATER SUPPLY—Source, cisterns and 1 large well. (A regular system of waterworks will be built this year.) Mayor, M. Bivington.

Chariton, Lucas Co., population 4,000; fire area 329 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, inferior 400 ft; 3 horses, value \$300; value of fire department equipment \$5,000; value of buildings occupied \$4,000; total membership 120, volunteers; bell alarm. Chief engineer, J. D. Beaman.

WATER SUPPLY—Source, 3 cisterns of 800 bbls each; 3 reservoirs. City clerk, Frank Granger.

Charles City, Floyd Co., population 2,802; mercantile buildings, wood and stone, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine, 1 hook and ladder truck, 2 hose carriages, 1,000 ft cotton hose; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total ann expenses of department \$1,200; total membership 60, all volunteers; bell alarm. Chief, Geo. M. May. *

WATER SUPPLY—Source, river and springs; system, direct; pumping engine, dy cap 1,250,000 gals; 25 hydrants; pipe 2 1/2 miles, 4 to 10 in dia; 12 valves; pressure, domestic 65, fire 85 to 95 pounds; works owned by city; cost to construct \$20,000; ann expenses \$1,300. Supt, W. B. Sessler.

Cherokee, Cherokee Co., population 3,600; fire area 2 miles; buildings, brick and wood, 1 and 2

stories; fireworks ordinance. Fire department—1 horse power engine, 1 hook and ladder truck, 2 hose carriages; hoses, rubber good 300 ft. cotton good 1,000 ft.; value of fire department equipment \$3,000; bell alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, A. M. Beymer.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; reservoir cap 80,000 gals; standpipe cap 1,500,000 gals; pumping engines, dy cap 1,000,000 gals; 18 hydrants; pipe 2½ miles, 6, 8 and 10 in dia; service pipe 1-4 in iron; pressure, domestic 80, fire 125 pounds; works owned by city; cost to construct \$26,000; ann expenses \$1,800. Supt. C. B. Holden.

Claremore, Claremore Co., population 650; fire area 25 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 200 ft. cotton good 500 ft.; value of fire department equipment \$300; total ann expenses of department \$500; total membership 25, volunteers. Chief engineer, S. W. Spaulding.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe and then to reservoir; reservoir cap 48,000 gals; standpipe 65 ft of 4 inch; pumping engines, dy cap 50,000 gals; 7 hydrants; pipe 1 mile, 2, 4 and 6 in dia; 2 valves; pressure 40 pounds; works owned by city; cost to construct \$7,000; ann expenses \$300. Supt. S. W. Spaulding.

Clarinda, Page Co., population 4,000; fire area 440 acres; mercantile buildings, brick, stone, iron and wood, 2 and 3 stories; private, same; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 2 hose carriages, 1 hose wagon, 1 new running cart; hose, rubber good 300 ft. cotton good 1,000 ft. in iron; 200 ft.; value of fire department equipment \$4,500; value of buildings occupied \$3,500; total membership 100, volunteers; electric bell alarm. Chief engineer, John D. Jones. (Expect to purchase H. & L. truck.)

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines, dy cap 2,500,000 gals; 40 hydrants; pipe 5½ miles, 3 to 12 in dia; service pipe lead and galv iron; pressure, domestic 65, fire 120 pounds; works owned by city; original cost to construct \$42,000; expenses of construction to date \$48,000; ann expenses \$2,800. Supt. L. J. Bracken.

Clear Lake, Cerro Gordo Co., population 1140; buildings, brick and wood, 1 and 2 stories; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, linen good 50 ft. rubber good 300 ft.; value of fire department equipment \$1,600; total ann expenses of department \$100; total membership 60, all volunteers; bell alarm. Chief engineer, John Clay.

WATER SUPPLY—Source, lake and 2 cisterns; cap of cisterns 300 gals each. (A standpipe system of works will be put in this year.)

Clinton, (includes Chaney) Clinton Co., population 18,000; fire area 3,000 acres; mercantile buildings, brick, stone and wood, 2 to 5 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine (not in use), 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, rubber good 2,000 ft. poor 1,000 ft. cotton good 3,000 ft. 4 hoses, value \$800; value of fire department equipment \$25,000; value of buildings occupied \$15,000; total ann expenses of department \$6,000; total membership 36, paid full time 6, volunteers 30; Game-well alarm; 42 street boxes; 4 fire companies. Chief engineer, Edmund Burke.

WATER SUPPLY—Source, artesian and Mississippi river; system, pumping to reservoir and direct; reservoir cap 1,000,000 gals; pumping engines, dy cap 13,000,000 gals; 375 hydrants; pipe 37 miles, 4 to 16 in dia; 150 valves; service pipe galv iron; pressure, domestic 80, fire 110 pounds; waterworks owned by company. Supt. S. M. Highlands.

Cornning, Adams Co., population 2,035; fire area 600 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, same; wooden roofs permitted; fireworks ordinance. Fire department—

—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 600 ft. cotton good 1,000 ft.; value of fire department equipment \$3,000; bell alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, A. M. Beymer.

WATER SUPPLY—Source, well; system, pumping to tank; tank 57,800 gals; pumping engines, dy cap 70,000 bbls; 27 hydrants; pipe 5 miles, 2 to 8 in dia; 6 valves; 125 taps; service pipe 2-4 in iron; pressure 80 pounds; waterworks owned by city; original cost to construct \$30,000; int on bonds 6 per cent. Supt. John W. Birby. *

Corydon, Wayne Co., population 962; fire area 300 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 300 ft.; value of fire department equipment \$1,500; value of buildings occupied \$100; total ann expenses of department \$100; total membership 80, volunteers; bell alarm. *

WATER SUPPLY—Source, wells. Mayor, J. W. Freeland; town clerk, H. K. Evans; county clerk, F. M. Smith.

Council Bluffs, Pottawattamie Co., population 23,000; fire area 115 acres; mercantile buildings, brick, 3 to 7 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 4 hose carriages, all kinds; hose, rubber good 5,000 ft. rubber inferior 1,000 ft. cotton good 1,000 ft; 15 hoses, value \$2,800; value of fire department equipment \$30,000; value of buildings occupied \$30,000; total ann expenses of department \$16,000; total membership 19, paid full time; Richmond & Game-well alarm; 27 street boxes. Chief engineer, Chas. Nicholson. *

WATER SUPPLY—Source, Missouri river; system, gravity, pumping to reservoir and direct; reservoir cap 14,000,000 gals; pumping engines, dy cap 8,000,000 gals; 283 hydrants; pipe 39 miles, 4 to 30 in dia; 230 gates; pressure, 80 to 120 pounds; works owned by company; ann expenses \$18,000. Gen'l mgr and asst treas. E. W. Hart.

Cresco, Howard Co., population 3,000; fire area 300 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft.; value of fire department equipment \$2,000; value of buildings occupied \$1,000; 50 volunteer members; bell and whistle alarm; 3 fire companies, 1 hook and ladder company, 3 hose companies. Chief, G. E. Story.

WATER SUPPLY—Source, wells; system, pumping to standpipe; cap 100,000 gals; pumping engines, cap 40,000 gals per 10 hrs; 11 hydrants; pipe 2 miles, 6, 8 and 4 in dia; 6 valves; 104 taps; pressure, 40 to 200 pounds; works owned by city; cost to construct \$16,000; ann expenses \$500. Chief engineer, John Swenson.

Creston, Union Co., population 10,000; fire area 3,268 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 2,000 ft. rubber good 2,000 ft.; 4 hoses, value \$1,200; total membership 125, paid full time 3, volunteer members 123; whistle alarm and fire bell, 10 telephones, 6 electric fire gongs; 6 fire companies, 1 engine company, 1 hook and ladder company, 4 hose companies. Chief engineer, Ed. W. Graham.

WATER SUPPLY—Source, west fork of Platte river, 1-3 mile west of city; system, pumping direct and to standpipe; lake cap 383,000,000 gals; standpipe cap 130,000 gals; pumping engines, dy cap 3,500,000 gals; cap of clear water basin 500,000; 140 hydrants; pipe 13 miles, 4 to 12 in dia; 80 valves; quality of water good; pressure, domestic 45, fire 120 pounds; works owned by company; cost to construct \$200,000; ann expenses \$3,000. Supt. H. S. Clark.

Davenport, Scott Co., population 30,500; fire area 9 sq miles; mercantile buildings, brick and stone, 2 to 5 stories; private, brick and wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—

ment—1 steam fire engine in reserve, 3 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, 3 hose wagons, 1 combination hose and chemical engine; hose, cotton good 9,500 ft; 16 horses, value \$2,450; value of fire department equipment \$45,700; value of buildings occupied \$24,000; total ann expenses of department \$24,500; total membership 27, paid full time; telegraph and telephone alarm; 43 street boxes. Chief engineer, P. M. Gilloley.

WATER SUPPLY—Source, Mississippi river; system, gravity and pumping direct; reservoir cap 5,000,000 gals; pumping engines, dy cap 18,500,000 gals; 402 hydrants; pipe 38 miles, 4 to 30 in dia; 550 valves; service pipe lead and iron; pressure, domestic 75, fire 125 pounds; works owned by company; original cost to construct \$750,000; expenses of construction to date 1,250,000. Supt, Thos. N. Hooper.

Dayton, Webster Co., population 1,000; fire area 6 blocks; mercantile buildings, brick, 1½ and 2 stories; private, wood, 1½ stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 600 ft; ann expenses of department \$100; membership 16; bell alarm. Marshal, J. W. Housken; chairman of fire and water com, S. Burquist.

WATER SUPPLY—Source, cisterns.

Decorah, Winneshiek Co., population 4,000; fire area 400 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 3,000 ft, cotton good 350 ft; value of fire department equipment \$3,500; value of buildings occupied \$5,000; total ann expenses of department \$3,000; total membership 80, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. Q. Gardner.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 500,000 gals; pumping engines, dy cap 200,000 gals; 18 hydrants; pipe 3 miles, 4 to 6 in dia; cost to construct \$30,000; int on bonds 6 per cent. Pres com, A. McKay; supt, O. Hoffas.*

Denison, Crawford Co., population 1,782; fire area 640 acres; mercantile buildings, wood, 1 and 2 stories; private, same. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, linen good 100 ft, rubber good 300 ft, inferior 300 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; total membership 45, volunteers; bell alarm. Chief engineer, R. Shaw.*

WATER SUPPLY—Source, 17 wells; system, pumping to standpipe; standpipe cap 78,000 gals; pumping engines, dy cap 500,000 gals; 24 hydrants; pipe 3 miles, 4 to 6 in dia; 11 valves; service pipe galv iron; pressure, domestic 20 to 45, fire 85 to 120 pounds; works owned by city; original cost to construct \$12,000; expenses of construction to date \$18,000; ann expenses \$1,300. Supt, N. J. Wheeler.

Des Moines, Polk Co., population 74,000; fire area 33,000 acres; mercantile buildings, stone and brick, 3 to 9 stories; private, wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine in reserve, 3 chemical engines on wheels, 6 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 2 hose carriages, all kinds, 3 hose wagons, 4 combination chemical and hose wagons; hose, rubber good 7,000 ft, rubber inferior 400 ft, cotton good 1,000 ft, cotton inferior 500 ft; 33 horses, value \$8,800; value of fire department equipment \$75,000; value of buildings occupied \$107,000; total ann expenses of department \$38,000; total membership 41, paid full time; Gamewell alarm; 37 street boxes; 10 fire companies, 2 engine companies, 3 hook and ladder companies, 5 hose companies. Chief engineer, Martin Melander. (Water tower and engine proposed.)

WATER SUPPLY—Source, ground water and Racoon river; system, pumping to standpipe and direct; standpipe cap 500,000 gals; pumping engines, dy cap 11,000,000 gals; 876 hydrants; pipe 77 miles, 6 to 24 in dia; valves, 2,500 meters; service pipe lead; pressure, domestic 100, fire 130 to 150 pounds; works owned by company; cost to construct \$1,-

275,000; ann expenses \$28,000. Manager, A. N. Denman.

De Witt, Clinton Co., population 1,400; fire area 480 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 700 ft, cotton good 700 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,000; total membership 30, volunteers; bell alarm; 1 fire company. Chief engineer, Chas. A. Butterfield.

WATER SUPPLY—Source, well; system, pumping to standpipe and reservoir; reservoir cap 54,000 gals; standpipe cap 54,000 gals; pumping engines, dy cap 80,000 gals; 18 hydrants; pipe 13-4 miles, 4 to 8 in dia; 6 valves; 3-4 in service pipe; pressure, domestic 30 pounds, fire 40 pounds; waterworks owned by city; original cost to construct \$10,000; ann expenses \$400. Supt, D. Armstrong.

Dubuque, Dubuque Co., population 40,000; fire area 31-2 x 21-2 miles; mercantile buildings, brick, 4 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 steam fire engines, 1 chemical engine on wheels, 2 hook and ladder trucks, 1 aerial truck, 2 hose carriages, 1 hose wagon, 1 combination hose wagon; hose, rubber good 1,000 ft, inferior 1,000 ft, cotton good 1,500 ft; 15 horses, value \$3,000; value of fire department equipment \$17,150; value of buildings occupied \$57,184; ann expenses of department \$27,359; membership 28, paid full time; Gamewell alarm; street boxes 41; 4 fire companies, 3 engine companies, 1 hook and ladder company. Chief engineer, Jos. Reinfrid.

WATER SUPPLY—Source, level and artesian wells; system, gravity, pumping to reservoir, standpipe and direct; standpipe cap 75 x 30 ft; pumping engines, dy cap 500,000 gals; hydrants 250; pipe 30 miles, 4 to 16 in dia; 300 valves; taps 1,056; service pipe lead; pressure 40 to 50 pounds; waterworks owned by company. Supt, N. W. Kimball.*

Dunlap, Harrison Co., population 1,200; fire area 10 to 12 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, same. Fire department—1 chemical engine on wheels, 150 ft good rubber hose, also buckets; value of fire department equipment \$950; bell alarm. Chief engineer, Paul H. Dabelston.

WATER SUPPLY—Source, private wells and cisterns.

Dyersville, Dubuque Co., population 1,272; mercantile buildings, brick and wood; private, same. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose cart; 300 ft cotton hose, good, 200 ft good cotton; total membership 70, volunteers; bell alarm. Chief, James Armstrong.

WATER SUPPLY—Source, river and cisterns. (Some talk of putting in waterworks.)

Dysart, Tama Co., population 800; fire area 180 acres; mercantile buildings, wood and brick, 1 story; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft, cotton good 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$400; total membership 40, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, M. H. Howard.

WATER SUPPLY—Source, cisterns.

Eagle Grove, Wright Co., population 2,800; fire area 640 acres; mercantile buildings, brick for past 2 years with tin roofs, 2 stories; private, wood, 1 story; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 48, volunteers; whistle alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, C. H. Bauer.

WATER SUPPLY—Source, flowing wells (waterworks proposed). Mayor, F. W. Pillsbury.

Elders, Hardin Co., population 2,500; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire in-

vestigated. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,500 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 32, volunteers; bell and whistle alarm; 2 fire companies. Chief engineer, E. E. Ellsworth.

WATER SUPPLY—Source, driven well; system, pump to tank; cap 100,000 gals; dy cap 50,000 gals; 5 hydrants; pipe $\frac{1}{2}$ mile; cost to construct \$8,000. Supt. H. E. Gardiner.*

Emmetsburg, Palo Alto Co., population 2,200; fire area 200 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 24 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft; value of fire department equipment \$2,500; total membership 58, volunteers; bell alarm; 2 hose companies, 1 chemical engine company, 1 hook and ladder company. Chief engineer, P. O. Resell.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 70,400 gals; pumping engines, dy cap 6,500 gals; hydrants 10; pipe $\frac{1}{2}$ miles, 6 in dia; 4 valves; taps 8; pressure, domestic 35, fire 100 pounds; works owned by city; original cost to construct \$9,000. Supt. Wm. Hefley.

Estherville, Emmett Co., population 2,250; fire area 40 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, cotton good 250 ft; value of fire department equipment \$1,800; value of buildings occupied \$200; total membership 40, volunteers; bell alarm; 1 fire company. Chief engineer, John Dygert.

WATER SUPPLY—Wells and cisterns. Mayor, M. L. Archer; town clerk, N. B. Egbert. Works contemplated.*

Fairfield, Jefferson Co., population 3,391. Fire department—1 hook and ladder truck, 3 hose carriages; hose, 1,000 ft; total membership 21. Chief fire dept. H. W. Welkert.*

WATER SUPPLY—Source, pond; system, pumping to standpipe; reservoir cap 90,000,000 gals; standpipe cap 67,000 gals; 2 pumping engines, dy cap 2,500,000 gals; hydrants 38; pipe 6 miles, 4 to 14 in dia; 32 valves; service pipe iron and lead; pressure, fire 125 pounds; works owned by city; original cost to construct \$57,000; expenses of construction to date \$69,000; ann expenses \$2,500. Supt. T. V. Higley.

Fontanella, Adair Co., population 1,600; buildings, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—consist of 14 ladders and 100 buckets. Chief engineer, A. B. Scott.

WATER SUPPLY—Source, 5 wells and cisterns. Town clerk, W. R. Prewitt.

Forest City, Winnebago Co., population 1,400; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$250; total membership 42, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chairman of fire and water com. J. W. Maboney.

WATER SUPPLY—Source, wells and cisterns.

Gladbrook, Tama Co., population 556; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department not reported.*

WATER SUPPLY—Source, artesian well; system, pumping to tank; tank cap 13,365 gals; pumping engine abt. 2,000 gals; hydrants 4; pipe 1-4 mile, 6 in dia; 1 valve; taps 15; wood service pipe; pressure, domestic 50, fire 75 pounds; works owned by city; original cost to construct \$3,500; ann expenses \$100. Supt. L. Wieland.

Glenwood, Mills Co., population about 3,000; mercantile buildings, wood and brick, 1 and 2 stories; private, same; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft, rubber good 150 ft, inferior 500 ft; value of fire

department equipment \$700; value of buildings occupied \$2,000; whistle alarm. Chief engineer, W. B. Houton.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe and direct; standpipe cap 1,050 bbls; pumping engines, dy cap 800 bbls; hydrants 15; pipe 2 miles, 4, 6 and 8 in dia; pressure, domestic 60, fire 100 pounds; works owned by city; original cost to construct \$17,000; expenses of construction to date \$18,000; ann expenses \$1,800. Chairman of com. J. E. Wickham.

Greenfield, Adair Co., population 1,500; fire area 1 x $1\frac{1}{2}$ miles; mercantile buildings, wood, 2 stories; private, wood, $1\frac{1}{2}$ stories; wooden roofs permitted. Fire department—1 hook and ladder truck; hose, cotton 400 ft; value of fire department equipment \$400; value of buildings occupied \$600; total expenses of department for year \$1,000; total membership 25, volunteers. Chief engineer, J. D. Williams.

WATER SUPPLY—Source, 4 large wells, pumps.

Grimmell, Poweshiek Co., population 3,500; fire area 1,800 acres; mercantile buildings, brick, 2 stories; private, wood, $1\frac{1}{2}$ and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,300 ft, cotton inferior 500 ft; membership 50, volunteer. Chief engineer, F. L. Matteson.

WATER SUPPLY—Source, wells and cisterns. (1 well 200 ft deep put in by city, cap per day 200,000 gals; waterworks will be put in this year.) Supt. D. S. Morrison.

Griswold, Cass Co., population 1,200; fire area 160 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 450 ft; value of fire department equipment \$800; value of buildings occupied \$200; ann expenses \$25; total membership 30, volunteers; bell alarm. Chief engineer, Milo Cheney.

WATER SUPPLY—Source, 7 wells. (Town has voted to put in waterworks, will build immediately.) Town clerk, D. H. Scott.

Grundy Centre, Grundy Co., population 1,600; mercantile buildings, brick, 2 stories; private, wood, $1\frac{1}{2}$ stories; wooden roofs permitted. Fire department—2 chemical engines on wheels, 25 chemical extinguishers, 1 hose carriage, water tank wagon; hose, linen good 500 ft, poor 250 ft; value of fire department equipment \$3,000; total ann expenses of department \$100; total membership 28, volunteers; bell alarm. Chief engineer, H. L. Wegstine.

WATER SUPPLY—Source, wells and cisterns. (Will put in waterworks this summer.)

Guthrie Centre, Guthrie Co., population 1,037; mercantile buildings, brick, 2 stories; private, wood, $1\frac{1}{2}$ stories; wooden roofs not permitted. Fire department—2 chemical engines on wheels, 3 chemical extinguishers; hose, rubber good 300 ft; total membership 36, volunteers; bell alarm. Chief engineer, H. A. Swain.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 25,000 gals; pumping engines, dy cap 500,000 gals; hydrants 8; pipe 20,000 ft, 6 in dia; 8 valves; pressure 40 to 70 pounds; waterworks owned by city; original cost to construct \$10,000; cost to date \$14,000; ann expenses \$700. Supt. W. F. Brann.

Guttenburg, Clayton Co., population 1,160; fire area 440 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, rubber good 500 ft; value of fire department equipment \$2,450; value of 2 buildings occupied \$1,650; total membership 45, volunteers; bell alarm. Chief engineer, Wm. Nolte.*

WATER SUPPLY—Source, wells and R. R. tank.*

Hampton, Franklin Co., population 2,800; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft, cotton good 500 ft; bell alarm. Chief engineer, Frank Kratochvil.

WATER SUPPLY—Source, spring; system, pumping to standpipe; standpipe cap 50,000 gals; pump-

ing engine, dy cap 2,300 gals per minute; hydrants 16; pipe 1 1-2 miles, 8, 6 and 4 in dia; 8 valves; quality of water best; pressure, domestic 45, fire 125 pounds; works owned by city; cost to construct \$16,000; ann expenses \$1,840. Supt, Frank Kratochvil.

Kielstein, Ida Co., population 800; fire area 8 blocks; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, cotton inferior 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$400; total membership 23, volunteers; bell alarm. Chief engineer, A. Wenta.*

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 1,800 bbls; pumping engine; hydrants 5; pipe 2 1-2 miles, 4 to 6 in dia; works owned by city; original cost to construct \$3,600. Supt, J. Wenta.*

Humboldt, Humboldt Co., population 1,500; fire area 2 sections; mercantile buildings, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose rubber good 200, rubber inferior 100, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 18, paid part time; bell alarm. Chief engineer, John Sherrar.*

WATER SUPPLY—Source, spring and river; system, pumping to reservoir, cap 95,000 gals; pumping engine, dy cap 50,000 gals; hydrants 4; pipe 350 rods, 8 to 4 in dia; 4 valves, 20 taps; pressure, domestic 35, fire 80 to 100 pounds; works owned by city; cost to construct \$7,500. Supt, Jos. Sheldon.*

Ida Grove, Ida Co., population 2,000; fire area 90 acres; mercantile buildings, wood, 1 1-2 and 2 stories; private, wood, 1 and 2 stories. Fire department—2 hose carriages, 1 hook and ladder truck; hose, 1,400 ft good cotton, poor 300 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,000; total membership 19, volunteers; bell and whistle alarm. Chief engineer, John Lamson.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 3,150 bbls; pumping engine, dy cap 8,000 bbls; hydrants 21; pipe 2 1-2 miles, 4 and 6 in dia; valves 16; pressure, domestic 45, fire 60 pounds; works owned by city; original cost to construct \$3,200; expenses of construction to date 4,000; ann expenses \$600. Supt, J. C. Higgins.

Independence, Buchanan Co., population 5,000; fire area 170 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 1-2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 600 ft, rubber inferior 700 ft, cotton good 1,350 ft; value of fire department equipment \$10,000; value of buildings \$3,500; total ann expenses of department \$841; total membership 71, volunteer; whistle and telephone alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, P. McCorstin.

WATER SUPPLY—Source, wells; system, pumping direct; pumping engine, dy cap 2,000,000 gals; hydrants 42; pipe 5 1-2 miles, 8, 6 and 10 in dia; 18 valves; 125 meters; taps 250; service pipe iron; pressure, domestic 63, fire 20 pounds; works owned by city; original cost to construct \$40,000. Supt, A. D. Guernsey.

Indianola, Warren Co., population 3,200; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$900; value of buildings occupied \$200; total ann expenses of department \$20; total membership 16, paid part time, 1 volunteer members 15; bell alarm. Chief engineer, M. R. Judkins; chairman of fire and water com, M. R. Judkins.

WATER SUPPLY—Source, public wells; works are contemplated. Town clerk, E. W. Hartman.

Iowa Falls, Hardin Co., population 1,796; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 horsepower engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$4,850; total ann expenses of department \$105; total membership 63, volunteers; bell alarm. Chief engineer, E. O. Soule.

WATER SUPPLY—Source, flowing wells; system, pumping to standpipe and direct; reservoir cap 150,000 gals; standpipe cap 90,000 gals; pumping engine, hour cap 36,000 gals; hydrants 15; pipe 1 1-2 miles, 8 in dia; 4 valves; taps 10; service pipe galv iron; pressure 60 pounds; works owned by city; original cost to construct \$16,000. Supt, W. H. Courtney.*

Jefferson, Greene Co., population 2,900; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 1,800 ft, poor 200 ft, cotton good 600 ft; value of fire department equipment \$3,000; total membership 60, volunteers; 1 hose company, 1 engine, 1 hook and ladder company; bell alarm. Chief engineer, Zala A. Church.

WATER SUPPLY—Source, wells and cisterns; 8 tanks, cap 1,500 barrels. Will put in waterworks this year.

Keosauqua, Keokuk Co., population 800; fire area 185 acres; mercantile buildings, brick and wood, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, hooks, ladders and buckets; hose, rubber inferior 100 ft; value of fire department equipment \$500; bell alarm. Town marshal, J. E. Haney.*

WATER SUPPLY—Source, town wells. Town clerk, J. E. Eaton.*

Keosauqua, Marion Co., population 3,900; fire area 12 blocks; mercantile buildings, brick, 2 stories; private, brick and wood, 1 1-2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 350 ft, inferior 150 ft, cotton good 1,000 ft; value of fire department equipment \$4,500; value of buildings occupied \$1,000; total ann expenses of department \$140; total membership 28, volunteers; bell alarm. Chief engineer, W. F. Wetherall.*

WATER SUPPLY—Source, river, 2 and 3-4 miles distant; system, pumping to reservoir and standpipe; reservoir cap 7,000,000 gals; standpipe cap 85,000 gals; 2 pumping engines, hour cap 36,000 gals; hydrants 32; pipe 6 1/2 miles, 4 to 8 in dia; 20 valves; taps 110; iron service pipe; pressure, domestic 50, fire 60 pounds; works owned by city; original cost to construct \$38,500; expenses of construction to date \$39,000; ann expenses \$1,000. Com, H. Cunningham.*

Lansing, Allamakee Co., population 1,700; mercantile buildings, brick and stone, 2 and 3 stories; private, stone and brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hand engines, 2 chemical engines on wheels, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,000 ft, cotton good 500 ft; value of fire department equipment \$5,500; value of buildings occupied \$8,000; total ann expenses of department \$250; total membership 60, volunteers. Chief engineer, A. J. Widmerer.

WATER SUPPLY—Source, artesian wells; system, gravity; hydrants 8; pipe 1 1/2 miles, 4 and 6 in dia; 5 valves; pressure 30 pounds; works owned by company; original cost to construct \$8,000; expenses of construction to date \$10,000; ann expenses \$150. Pres, M. Kerndt; supt, Edw. Boeckh.*

La Porte City, Black Hawk Co., population 1,200; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 50 ft, linen good 900 ft, linen inferior 100 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,200; total ann expenses of department \$150; total membership 25, volunteers; bell alarm. Chief engineer, Robt. McQuilkin.

WATER SUPPLY—Source, 4 cisterns, cap 8,000 gals each, and creek. Town clerk, F. W. Fisher.*

Lehigh, Webster Co., population 870; fire area 320 acres; mercantile buildings, wood and brick,

1 and 2 stories; private, wood, 1 1/2 and 2 stories; no fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hose carriage; hose, cotton good 400 ft; value of fire department equipment \$900; membership 35, volunteers. Chief, J. E. Chase.

WATER SUPPLY—Source, wells and Des Moines river.

Le Mars, Plymouth Co., population 5,000; fire area 400 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 3,300 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,700; total ann expenses of department \$329; total membership 42, volunteers; telephone and steam whistle alarm. Chief engineer, T. Adamson.

WATER SUPPLY—Source, wells; system, pumping direct; reservoir cap 500,000 gals; pumping engines, 4 cap 2,000,000 gals; hydrants 81; pipe 18 miles, 4 to 14 in dia; 60 valves; pressure, domestic 60, fire 120 pounds; works owned by company; original cost to construct \$90,000; expenses of construction to date \$90,000; ann expenses \$4,000. Supt., J. K. Alline.

Lisbon, Linn Co., population 1,150; fire area 4 blocks; mercantile buildings, brick, stone and wood, 2 stories; wooden roofs not permitted in fire limits; dwellings, brick and lumber, 2 stories. Fire department—1 hand engine, 2 chemical extinguishers, 1 hose carriage, buckets, hooks and ladders; hose, rubber 200 ft; value of equipment \$200.

WATER SUPPLY—Source, wells and 3 large cisterns. Mayor, W. H. Runkle.

Lowden, Cedar Co., population 500; fire area 1-2 sq miles; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; value of fire department equipment \$700; value of buildings occupied \$100; total membership 14, volunteers; bell alarm. Chief engineer, Wm. Krenbring.

WATER SUPPLY—Source, wells. Mayor, G. F. Reinking.

Lucas, Lucas Co., population 600; fire area 300 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$1,000; value of buildings occupied \$900; total ann expenses of department \$10; total membership 25, volunteers; bell alarm. Chief engineer, M. E. Cook.

WATER SUPPLY—Source, wells.*

Lyons, Clinton Co., population 7,000; fire area 900 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 5 hose carriages, 1 hook and ladder truck; hose, cotton good 2,000 ft, rubber good 2,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$5,000; total ann expenses of department \$500; total membership 125, volunteers; telephone alarm. Chief engineer, Tom T. Ashton.

WATER SUPPLY—Source, wells and Mississippi river; system, pumping to reservoir and direct; reservoir cap 800,000 gals; pumping engines, 4 cap 1,500,000 gals; hydrants 80; pipe 10 miles, 4 to 12 in dia; 60 valves; 3-4 in galv iron service pipe; pressure, domestic 45, fire 100 pounds; works owned by company. Supt, H. G. Smith.

Manchester, Delaware Co., population 2,500; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 10 chemical extinguishers; 2 hose carriages; hose, rubber good 1,500 ft; value of fire department equipment \$10,000; total membership 40, 40 paid part time, volunteers; members 20; bell alarm. Chief engineer, A. Thorpe.

WATER SUPPLY—Source, spring; system, pumping to standpipe, cap 115,000 gals; pumps, 4 cap 700,000 gals; hydrants 27; pipe 3 1/4 miles, 8 to 4 in dia; 19 valves; pressure, domestic 60, fire 80 to

120 pounds; works owned by city; cost to construct \$24,000. Supt, C. H. Davis.*

Mamming, Carroll Co., population 1,300; fire area 160 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story; wooden roofs are permitted, except on 2 blocks; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, linen good 1,250 ft; value of fire department equipment \$380; value of buildings occupied \$150; total ann expenses of department \$53; total membership 27, volunteers; bell alarm; 1 fire company. Chief engineer, Fred Miller.*

Mapleton, Monona Co., population 1,200; fire area 160 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical and hand engine combined, 2 hose carriages, all kinds; hose, cotton good 1,200 ft; value of fire department equipment \$1,200; value of buildings occupied \$3,000; total membership 35, volunteers; bell and whistle alarm. Chief engineer, R. B. Harper.

WATER SUPPLY—Source, 12 driven wells; system, pumping to reservoir; reservoir cap 60,000 gals; pumping engines, 4 cap 720,000 gals; 9 hydrants; pipe 1 mile, 6 and 8 in dia; 10 taps; 4 valves; pressure, domestic 83, fire 175 pounds; waterworks owned by city; original cost to construct \$8,000; expenses of construction to date \$8,000. Supt, C. I. Whiting.

Maquoketa, Jackson Co., population 3,077. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; total membership 50; bell fire alarm system. Chief engineer, G. O. Morse.*

WATER SUPPLY—Source, well; system, pumping to standpipe; reservoir cap 100,000 gals; pumping engines, 4 cap 2,500,000 gals; 48 hydrants; pipe 5 1/2 miles, 4 to 10 in dia; 16 valves; service pipe galv iron; pressure, domestic 80, fire 160 pounds; works owned by city; original cost to construct \$28,000; expenses of construction to date \$42,000; ann expenses \$1,800. Supt, G. O. Morse.

Marshalltown, Marshall Co., population 8,914. Fire department—2 hook and ladder trucks, 4 hose carriages; hose, cotton inferior 250 ft, rubber good 2,300 ft, linen good 350 ft; total membership 100, volunteers; telegraph alarm; 11 street boxes. Chief engineer, J. H. Johnson.*

WATER SUPPLY—Source, river; system, pumping direct; pumping engines, 4 cap 1,500,000 gals; 139 hydrants; pipe 15 miles, 2 to 12 in dia; 90 valves; service pipe iron and lead; pressure, domestic 60, fire 90 to 120 pounds; works owned by city; original cost to construct \$47,000; expenses of construction to date \$175,000; ann expenses \$7,000. Supt, J. G. Trotter.

Mason City, Cerro Gordo Co., population 5,000; mercantile buildings, stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, linen good 1,500 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total ann expenses of department \$500; total membership 21, paid part time; bell alarm. Chief engineer, W. C. Clark.*

WATER SUPPLY—Source, 4 wells; system, pumping direct; reservoir cap 600,000 gals; 30 hydrants; pipe 4 1/2 miles, 10 to 8 in dia; 8 meters; quality of water good; pressure, domestic 60, fire 125 pounds; works owned by city; cost to construct \$45,000; ann expenses \$3,000; int on bonds \$1,500. Engineer, G. S. Thompson.

Missouri Valley, Harrison Co., population 4,000; fire area 16 sq miles; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages; hose, rubber good 1,300 ft, rubber inferior 400 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 40, volunteers; bell alarm. Chief engineer, Wm. Neund.*

WATER SUPPLY—Source, driven well; system, pumping to reservoir; cap 200,000 gals; pumping engines, 4 cap 750,000 gals; 28 hydrants; pipe 3 1/2 miles, 6 to 12 in dia; 20 valves; pressure, domestic 95, fire 150 to 175 pounds; waterworks owned by city; cost to construct \$16,000; ann expenses \$900. Supt, D. P. Baker.*

Montezuma, Poweshiek Co., population 1,300; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood; wooden roofs not permitted on business houses; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hose carriage, other apparatus, hooks and ladders; hose, cotton good 450 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,500; total ann expenses of department \$2,200; total membership 32, volunteers; bell alarm. Chief engineer, S. A. Hunter.

WATER SUPPLY—Source, wells. Mayor, J. W. Rodgers.

Montour, Tama Co., population 500; fire area 20 acres; mercantile buildings, stone, brick and wood, 1 and 2 stories; private, wood, 1½ stories. Fire department—3 chemical extinguishers, 1 hose carriage; hose, rubber good 150 ft, poor 300 ft.

WATER SUPPLY—Source, driven wells at corners of 2 principal streets with force pumps.

Mount Ayr, Ringgold Co., population 1,750; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine and chemical combined, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$2,800; total membership 30, paid part time; bell alarm. Chief engineer, H. L. Royce.

WATER SUPPLY—Source, wells and cisterns.

Mount Pleasant, Henry Co., population about 5,500; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted except on one block. Fire department—1 hook and ladder truck, 1 hose wagon; hose, rubber inferior 400 ft, cotton good 800 ft; value of fire department equipment \$1,400; value of buildings occupied \$3,000; ann expenses \$810; magnetic bell alarm, one at each fireman's residence, business and telephone office; total membership 11, paid part time. Chief engineer, C. A. Whitaker.

WATER SUPPLY—Source, Big creek; system, pumping to standpipe and direct; standpipe cap 50,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 50; pipe 7 miles, 4 to 10 in dia; 25 valves; gas iron service pipe, pressure, domestic 40, fire 100 pounds; works owned by city; original cost to construct \$60,000; expenses of construction to date \$100,000; ann expenses \$4,500. Supt, W. F. McClary.

Mount Vernon, Linn Co., population 1,500; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hose carriage; hose, linen good 150 ft; value of fire department equipment \$1,000; total membership 20, volunteers; bell alarm. Chief engineer, C. A. Smith.

WATER SUPPLY—Source, wells and cisterns.

Muscataine, Muscatine Co., population 11,454; fire area 120 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 2 hook and ladder trucks, 15 hose carriages, all kinds; hose, cotton good 4,200 ft, inferior 1,000 ft, rubber good 1,000 ft, inferior 1,000 ft; value of fire department equipment \$9,000; value of buildings occupied \$8,000; total ann expenses of department \$2,000; 250 volunteer members; bell alarm. Chief engineer, John Binbuff.

WATER SUPPLY—Source, Mississippi river; system, pumping to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 5,000,000 gals; hydrants 75; pipe 6½ miles, 6 to 16 in dia; 71 valves; pressure, domestic 75 to 90, fire 90 to 150 pounds; works owned by company; original cost to construct \$80,000; expenses of construction to date \$85,000; ann expenses \$8,000. Supt, Wm. Mollis.

Neola, Pottawattamie Co., population 1,200; mercantile buildings, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 600 ft, rubber inferior 50 ft; value of fire department equipment \$1,200; value of buildings occupied \$250; total membership 18, volunteers; bell alarm. Chief engineer, Geo. H. Wheeler.*

WATER SUPPLY—Source, well; system, pump to

tank and direct; tank cap 60,000 gals; pumping engines, dy cap 450,000 gals; pipe 1 mile; 12 hydrants; 4 valves; pressure 75 to 150 pounds; works owned by city; cost to construct \$7,000. Supt, James Franklin.

Nevada, Story Co., population 2,023; fire area 40 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 300 ft, cotton good 900 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; steam whistle alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, R. T. Alderman.*

WATER SUPPLY—Source, 2 large wells; system, pumping to reservoir; reservoir cap 120,000 gals; pumping engines, 10 hour cap 200,000 gals; hydrants 19; pipe 1½ miles, 4, 6 and 8 in dia; 8 valves; taps 60; service pipe 1 in and 3-4 in iron; pressure 43 pounds; works owned by city; original cost to construct \$12,080; expenses of construction to date \$18,000; ann expenses \$300. Chairman of com, W. S. Alderman.*

New Hampton, Chickasaw Co., population 1,800; fire area 12 blocks; mercantile buildings, wood, nearly 2 blocks brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines (1 not in use), 1 chemical engine on wheels, 25 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, rubber good 600 ft; value of fire department equipment \$2,000; value of buildings occupied \$5,000; total ann expenses of department \$1,000; total membership 95, volunteers; 3 bells. Chief engineer, J. A. Johnston.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 63,000 gals; dy cap 500,000 gals; hydrants 13; pipe 4,000 ft, 4, 6 and 8 in dia; 2 valves; pressure, domestic 40, fire 80 pounds; works owned by city; original cost to construct \$7,000; expenses of construction to date \$10,000; ann expenses \$500. Supt, L. L. Briggs

and treas.

New Sharon, Mahaska Co., population 1,300; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck; hose, cotton good 300 ft, rubber good 100 ft; value of fire department equipment \$600; value of buildings occupied \$150; total ann expenses of department \$25; 25 volunteer members; bell alarm. Chief, Chas. F. Griffey.

WATER SUPPLY—Source, wells.

Newton, Jasper Co., population 3,500; fire area 600 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in business section. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, rubber good 200 ft; value of fire department equipment \$6,000; value of buildings occupied \$3,600; total ann expenses of department \$125; total membership 60, volunteers; electric bell alarm; 1 hook and ladder company. Chief engineer, R. K. Lambert.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 50,200 gals; pumping engines, dy cap 72,000 gals; 24 hydrants; pipe 6 and 8 in dia; pressure, domestic 20, fire 100 pounds; works owned by city; original cost to construct \$16,000. Supt, A. C. Gates.

Norway, Benton Co., population 401; mercantile buildings, wood, 2 stories. Fire department—buckets; hose, rubber good 200 ft.

WATER SUPPLY—Source, town well and large R. R. tank; capacity 1,600 barrels. Town clerk, B. M. McQuinn.

Odebolt, Sac Co., population 1,122; mercantile buildings, brick and wood, 2 stories. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,400 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$120; total membership 48, volunteers; bell alarm; total no of fire companies 3. Chief engineer, W. J. Summerville.

WATER SUPPLY—Source, wells; system, pumping to reservoir; cap of reservoir 60,000 gals; Steam Pump Works; cap of pump per day 300,000 gals; 10 hydrants; pipe 1½ miles; 4 valves; works owned by company; pressure 50 to 60 pounds;

cost to construct \$7,500; ann expenses \$300. Supt, Jos. Mattes.

Onawa, Monona Co., population 1,600; mercantile buildings, brick, 1 and 2 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—100 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, linen good 1,200 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,500; total membership 47, volunteers; bell alarm. Chief engineer, Fred L. Walker.

WATER SUPPLY—Source, wells.*

Osage, Mitchell Co., population 2,500; mercantile buildings, stone and brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted except in business part; fireworks ordinance. Fire department—1 steam fire engine, 15 private chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 40, volunteers; bell alarm; 1 hose company, 1 hook and ladder company. Chief engineer, H. Husselman.

WATER SUPPLY—Source, 6 cisterns, cap of each 300 barrels.

Oswego, Clark Co., population 2,800; fire area 1,000 acres; mercantile buildings, brick, iron and wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels and hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 450 ft, linen inferior 50 ft; value of fire department equipment \$1,200; value of buildings occupied \$500; total membership 25, volunteers. Chief engineer, R. W. Myer.

WATER SUPPLY—Source, wells and cisterns. Town clerk, F. M. Kye.

Oskaloosa, Mahaska Co., population 8,500; fire area 60 acres; mercantile buildings, brick, 2 and 3 stories; private, wood; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,000 ft, rubber inferior 300 ft, cotton good 1,000 ft; 1 horse, value \$175; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$1,100; total membership 25, paid full time 1, paid part time 24; bell and whistle alarm. Chief engineer, B. T. Dutton.

WATER SUPPLY—Source, river; system, pump to standpipe, cap 280,000 gals; pumping engines, dy cap 4,000,000 gals; 61 hydrants; pipe 14 miles, 12 to 4 in dia; 23 valves; pressure, domestic 40, fire 95 pounds; cost to construct \$175,000. Supt, Chas. B. Craig.*

Ottumwa, Wapello Co., population 20,000; fire area 25 acres; mercantile buildings, brick, 3 to 5 stories; private, brick and wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 6 hose carriages, all kinds, 1 hose wagon; hose, cotton good 2,000 ft, inferior 1,500 ft, rubber good 1,000 ft; 3 horses, value \$450; value of fire department equipment \$7,750; value of buildings occupied \$5,500; total ann expenses of department \$5,000; total membership 8, paid full time 5, paid part time 3; Gamewell alarm; street boxes 18. Chief engineer, Alfred Webb. (Proposed, one chemical and ladders combined.)

WATER SUPPLY—Source, Des Moines river; system, pump to reservoir and direct; reservoir cap 3,000,000 gals; dy cap 4,000,000 gals; hydrants 146; pipe 26 miles, 4 to 24 in dia; quality of water good; pressure, domestic 80, fire 170 pounds; works owned by company. Supt and mgr, Wm. H. Sherwin.

Pella, Marion Co., population 3,200; fire area 1 mile square; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted inside fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 900 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$500; total membership 100, volunteers; 3 fire companies; bell alarm. Chief engineer, Henry Held.

WATER SUPPLY—Source, 28 wells and 2 cisterns, cap of cisterns 1,000 bbls each.

Perry, Dallas Co., population 4,000; mercantile buildings, brick, inside fire limits, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton good 800 ft, cotton inferior 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; total ann expenses of department \$30; total membership 30. Chief engineer, T. H. White.*

WATER SUPPLY—Source, artesian well; system, gravity, pumping to standpipe and direct; standpipe cap 60,000 gals; pumping engines, dy cap 750,000 gals; hydrants 33; pipe 3 miles, 4, 6 and 8 in dia; 11 valves; service pipe galv iron; pressure, domestic 100 lbs, fire 150 pounds; works owned by city; original cost to construct \$18,000; ann expenses \$1,600. Chairman of com, James Wimmer.

Red Oak, Montgomery Co., population 4,000; fire area 650 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,350 ft, inferior 150 ft; value of fire department equipment \$1,450; value of buildings occupied \$1,000; total ann expenses of department \$100; total membership 80, volunteers; Gamewell alarm; 3 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, P. C. Shipley.*

WATER SUPPLY—Source, wells; system, pumping direct; 3 pumping engines, dy cap 1,200,000 gals; hydrants 47; pipe 7 miles, 4 to 10 in dia; valves; works owned by city; original cost to construct \$45,000; expenses of construction to date \$60,000; ann expenses \$4,000; int on bonds 5 per cent. Chairman of com, J. Sanborn; civil engineer, E. Clever.

Rockford, Floyd Co., population 2,500; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 1,000 ft, inferior 500 ft; value of fire department equipment \$9,000; value of buildings occupied \$500; total ann expenses of department \$1,200; total membership 16, volunteers; bell alarm. Chief engineer, A. D. Yorker.

WATER SUPPLY—Source, Shell Back river; system, pumping to tank; reservoir 16x12 ft; tank cap 52,000 gals; pumping engines, dy cap 500,000 gals; hydrants 10; pipe 1 mile, 4, 6 and 8 in dia; filtration through gravel; pressure, domestic 60, fire 150 pounds; works owned by city; original cost to construct \$7,500; ann expenses \$954; int on bonds 6 per cent. Chairman of com, L. Murrey; supt, Geo. Bennison.*

Rock Rapids, Lyon Co., population 1,800; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 1,250 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total membership 33, volunteer; bell alarm. Chief engineer, W. G. Smith.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 37,800 gals; pumping engines, dy cap 1,250,000 gals; hydrants 25; pipe 3½ miles, 4 to 8 in dia; 14 valves; taps 160; service pipe galv iron; pressure 50 to 100 pounds; works owned by company; original cost to construct \$25,000; expenses of construction to date \$28,000; ann expenses \$1,600. Supt, H. B. Pierce.*

Sanborn, O'Brien Co., population 1,500; fire area 100 acres; mercantile buildings, brick and frame, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, stationary, 1 hand engine, 2 hose carriages; hose, rubber good 700 ft; value of fire department equipment \$30,000; value of buildings occupied \$2,000; total ann expenses of department \$700; total membership 11, paid full time; bell alarm. Chief engineer, Warren Walker.

WATER SUPPLY—Source, lake; system, direct and pumping to tank; pumping engines, dy cap 864,000 gals; 9 hydrants; pipe 1½ miles, 4 to 12 in dia; pressure 20 to 200 pounds; cost to construct \$30,000. Supt, W. Walker.

Serantom City, Greene Co., population 800; fire area 40 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hose carriage; hose cotton good 400 ft, cotton inferior 200 ft; value of fire department equipment \$1,000; value of buildings occupied \$300; total ann expenses of department \$75; total membership 38, volunteers; bell alarm; 2 fire companies. Chief engineer, B. F. Roberts.

WATER SUPPLY—Source, 3 large wells and R. R. tank.

Seymour, Wayne Co., population 1,700; fire area 15 blocks; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 300 ft; value of fire department equipment \$650; value of buildings \$100; bell alarm. Mayor, G. W. Herbert.

WATER SUPPLY—Source, wells and cisterns.

Shelby, Shelby Co., population 800; fire area 440 acres; mercantile buildings, wood, 1 story; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 chemical extinguishers; bucket brigade.

WATER SUPPLY—Source, wells. Mayor, H. L. Scofield.

Sheldon, O'Brien Co., population 2,400; fire area 40 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 300 ft, inferior 200 ft, cotton good 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$300; total ann expenses of department \$300; total membership 28, volunteers; bell and steam whistle alarm. (Will probably put in electric.) Chief engineer, E. J. Crane.

WATER SUPPLY—Source, wells and cisterns. (In all probability city will put in waterworks this year.)

Shenandoah, Page Co., population 2,800; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 hook and ladder wagon; hose, rubber good 1,300 ft; value of fire department equipment \$1,000; value of buildings occupied \$4,000; total ann expenses of department \$150; total membership 16, volunteers; bell alarm. Chief engineer, G. F. Cottrill.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; standpipe cap 140,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 25; pipe 3 miles, 10 to 4 in dia; taps 75; valves 6; pressure, domestic 40 to 80 pounds, fire same; waterworks owned by city; original cost to construct \$30,000. Supt, C. M. Conway.

Sigourney, Keokuk Co., population 2,000; fire area 500 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 4 chemical extinguishers; total membership 40, volunteers; bell and whistle alarm system. Chief engineer, Joe A. Oelmayor.

WATER SUPPLY—Source, well and cisterns. Mayor, C. Pinkerton.

Sioux City, Woodbury Co., population 48,000; fire area 34,000 acres; mercantile buildings, brick, stone, iron and wood, 2 to 7 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine in reserve, 3 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, .75 ft aerial truck, 4 hose carriages, all kinds, 2 supply wagons, (1 hose wagon is a chemical combined); hose, rubber good 3,000 ft, rubber inferior 400 ft, cotton good 4,500 ft, cotton inferior 500 ft; 19 horses, value \$3,300; value of fire department equipment \$29,000; value of buildings occupied \$31,000; total ann expenses of department \$38,000; total membership 35, paid full time; Gamewell electric alarm; street boxes 30. Chief engineer, Geo. M. Kellogg.

WATER SUPPLY—Source, driven well; system, pumping to reservoir and direct; reservoir cap 1,500,000 gals; pumping engines dy cap 6,000,000 gals; hydrants 210; pipe 38 miles, 4 to 18 in dia;

315 valves; service pipe lead; pressure, domestic 110, fire 150 pounds; works owned by city; original cost to construct \$200,000; expenses of construction to date \$382,000; ann expenses \$25,000. Supt, Philip Carlin.

Sioux Rapids, Buena Vista Co., population about 1,000; fire area 20 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; 600 ft good cotton hose; value of fire department equipment \$500; total membership 13, volunteers. Chief and capt, F. A. Gabrielson.

WATER SUPPLY—Source, well, 400 ft from river; system, pump to reservoir, cap 50,000 gals; pumping engines, dy cap 250,000 gals; 11 hydrants; pipe 3 miles, 4 to 6 in dia; 3 valves; pressure 80 pounds; works owned by city; cost to construct \$10,000. Recorder, J. J. Jacobson.

Spencer, Clay Co., population 3,500; fire area $\frac{1}{2}$ sq mile; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,200 ft; value of fire department equipment \$1,800; total membership 33, volunteers; electric bell and whistle alarm; street boxes 2. Chief engineer, E. L. Koch.

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines, dy cap 1,000,000 gals; hydrants 7; pipe $\frac{1}{2}$ mile, 10 to 6 in dia; taps 6; pressure, domestic 20, fire 75 to 150 pounds; waterworks owned by city; original cost to construct \$4,500; expenses of construction to date \$4,800; ann expenses \$360. Supt, Frank Kellogg.

State Centre, Marshall Co., population 1,000; fire area 300 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages, 1 fire hook and 3 ladders; hose, rubber good 300 ft, cotton good 300 ft; value of fire department equipment \$1,200; value of buildings occupied \$150; total membership 35, volunteers; bell alarm. Chief engineer, G. I. Van Felt.

WATER SUPPLY—Source, wells; system, pumping to tank; reservoir cap 45,000 gals; pumping engines, dy cap 1,500 gals; 12 hydrants; pipe 1 mile, 6 in dia; 1 valve; quality of water hard; pressure 10 pounds; works owned by city; cost to construct \$10,000; ann expenses \$50. Supt, J. F. Cowan.

Storm Lake, Buena Vista Co., population 1,682; fire area 240 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 900 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$200; 42 volunteer members; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, A. B. Biddle.

WATER SUPPLY—Source, Storm Lake; system, pumping to standpipe and direct; standpipe cap 55,000 gals; pumping engines, dy cap 500,000 gals; hydrants 28; pipe $\frac{3}{4}$ miles, 4, 6 and 8 in dia; 11 valves; service pipe galv iron; pressure, domestic 40, fire 120 pounds; works owned by city; original cost to construct \$18,000; ann expenses \$950; int on bonds 5 per cent. Supt, A. W. Jones.

Story City, Story Co., population 1,000; fire area 160 acres; buildings, brick and wood, 1 $\frac{1}{2}$ and 2 stories; wooden roofs permitted. Fire department—1 hand and chemical engine combined, 1 hose carriage; hose, rubber good 300 ft, cotton good 500 ft, poor 100 ft; value of equipment \$1,500; value of buildings occupied \$200; total ann expenses of department \$1,000; total membership 115, volunteers; bell alarm. Chief, W. A. Kelly.

WATER SUPPLY—Source, wells.

Stuart, Guthrie and Adair Cos., population 2,500; fire area 700 acres; mercantile buildings, wood, 2 stories; private, wood, 1 $\frac{1}{2}$ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 1,000 ft, rubber inferior 300 ft, cotton good 200 ft; value of fire department equipment \$7,000; value of buildings oc-

cupied \$3,200; total ann expenses of department \$900; total membership 45, paid part time 1, volunteer members 44; whistle alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, G. W. Hackborn.*

WATER SUPPLY—Source, 8 wells, cap 12,000 gals each. Town clerk, F. C. Fritz.*

Tama, Tama Co., population 2,500; mercantile buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine not in use, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,000 ft, poor 1,000 ft; value of fire department equipment \$1,500; value of buildings \$2,500; total membership 60, volunteers; bell alarm. Chief engineer, C. D. Williams.

WATER SUPPLY—Source, large well in south part of town; system, pumping direct; pumping engines, dy cap 100,000 gals; hydrants 32; pipe 3 miles, 8, 6 and 4 in dia; valves 5; pressure, domestic 60, fire 80 pounds; water works owned by city; original cost to construct \$16,000; ann expenses \$800. Supt, J. F. Ellsworth.

Templeton, Carroll Co., population 280; fire area 10 acres; mercantile buildings, wood, 1 and 2 stories; private dwellings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage, hooks and ladders; hose, linen good 300 ft, inferior 250 ft, rubber good 500 ft; value of fire department equipment \$800.*

WATER SUPPLY—Source, reservoir of 800 barrels cap.*

Tipton, Cedar Co., population 2,000; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 900 ft, inferior 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$3,500; total ann expenses of department \$1,800; total membership 37, 1 paid full time and 1 part time, remainder volunteers; bell and whistle alarm. Chief engineer, John F. Leefers.

WATER SUPPLY—Source, well; system, pumping to reservoir and standpipe and direct; reservoir cap 30,000 gals; standpipe cap 20,000 gals; pumping engines, dy cap 66,000 gals; 30 hydrants; pipe 2½ miles, 6 and 4 in dia; 1 meter; pressure, domestic 40, fire 90 pounds; works owned by city; cost to construct \$25,000; ann expenses \$1,000. Supt, W. N. Treishler; mayor, T. B. Hanley.

Teledo, Tama Co., population 2,100; buildings brick and wood, 2 stories. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages, 6 chemical extinguishers; hose, cotton good 1,200 ft, inferior 250 ft; total membership 65, volunteers; bell alarm. Chief engineer, A. G. Smith.

WATER SUPPLY—Source, well; system, pumping to standpipe; standpipe cap 27,000 gals; pumping engines, dy cap 500,000 gals; hydrants 24; pipe 2½ miles, 4, 6 and 8 in dia; 8 valves; service pipe galv iron; pressure, domestic 70, fire 70 to 150 pounds; works owned by city; original cost to construct \$17,000; expenses of construction to date \$17,500; ann expenses \$800. Supt, A. E. Bufkin.

Traer, Tama Co., population 1,400; mercantile buildings, wood and brick; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose carriage; hose rubber good 400 ft, inferior 200 ft, 800 ft cotton good; value of fire department equipment \$4,000; value of buildings occupied \$1,000; total ann expenses of department about \$200; total membership 30, paid full time 3; bell alarm; volunteer fire patrol. Chief engineer, Fred. A. Wood.

WATER SUPPLY—Source, creek; 5 cisterns; cap of cisterns 2,500 barrels dy. (Water works will probably be built this year.) F. A. Wood, supt.

Villisca, Montgomery Co., population 2,500; fire area 700 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,500 ft, rubber inferior 300 ft; value of fire department equipment \$3,500; value of buildings occupied \$800; total ann expenses of department \$300; membership 45, volunteers; bell alarm; 1 hook and

ladder company, 3 hose companies. Chief engineer, L. J. Lynch.

WATER SUPPLY—Source, 3 wells; system, pumping to reservoir, cap 2,500 bbls; Knowies pumping engines, dy cap 3,500 bbls; 12 hydrants; pipe 1½ miles, 4 to 6 in dia; 5 valves; 2 meters; quality of water good; pressure, domestic 65, fire 150 pounds; works owned by city; cost to construct \$10,500; ann expenses \$900. Water com, Amos Anderson.

Vinton, Benton Co., population 2,865; mercantile buildings, brick and wood, 1 to 3 stories; private, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages, other apparatus, 1 hose carriage; hose, cotton good 1,200 ft, inferior 100 ft, rubber good 1,000 ft, inferior 100 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total membership 80, volunteers; bell alarm. Chief engineer, H. S. Snyder.*

WATER SUPPLY—Source, 8 artesian wells; system, pumping direct; reservoir cap 45,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 52; pipe 6 1-8 miles, 4 to 10 in dia; 44 valves; service pipe galv iron; pressure, domestic 40, fire 80 to 150 pounds; works owned by city; original cost to construct \$28,000; expenses of construction to date \$42,000, ann expenses \$1,907. Supt, Geo. B. Hays.

Wall Lake, Sac Co., population 439; mercantile buildings, brick and wood, 1½ and 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; bell alarm. Chief, Neil McFarlan.

WATER SUPPLY—Source, wells; system, gravity; reservoir cap 1,300 bbls; pumping engines, dy cap 2,500 bbls; hydrants 10; pipe 1½ miles, 6 and 4 in dia; 6 valves; pressure 45 pounds; works owned by city and company; cost to construct \$3,500; expenses of construction to date \$6,000. Supt, C. A. Johnston.

Wapelle, Louisa Co., population 1,100; fire area 1 mile; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand and chemical engine combined, 1 hose carriage and hook and ladder combined; hose, cotton good 500 ft; value of fire department equipment \$1,300; value of buildings occupied \$800; total ann expenses of department \$50; total membership 32, volunteers. Chief engineer, C. W. Warren.

WATER SUPPLY—Source, 5 drive pipes connected to hydrants; 5 hydrants; pipe 2 in; works owned by city; cost to construct \$50 a hydrant.

Washington, Washington Co., population 4,500; fire area 1,280 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted, except on two blocks; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,800 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; ann expenses \$300; total membership 65, paid part time 1, volunteer members 64; alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies; electric bell alarm. Chief engineer, E. W. Hout.

WATER SUPPLY—Source, well; system, pumping to reservoir and standpipe; reservoir cap 30,000 gals; standpipe cap 130,000 gals; pumping engines, dy cap 1,397,000; hydrants 48; pipe 8 miles, 4 to 10 in dia; 32 valves; pressure, domestic 50, fire 80 to 100 pounds; works owned by city; original cost to construct \$40,000; ann expenses \$1,400. Supt, St. Clair Lewis.

Waterloo, Black Hawk Co., population 9,000; fire area 115 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, rubber inferior 300 ft, cotton good 3,800 ft; value of fire department equipment \$9,500; value of buildings occupied \$3,500; total ann expenses of department \$700; total membership 100, 3 paid part time, balance volunteers. Chief engineer, H. Rossignol.

WATER SUPPLY—Source, Cedar river; system,

pumping to standpipe, cap 112,000 gals; pumping engines, dy cap 3,000,000 gals; pipe 11 miles; 116 hydrants; 16 valves; pressure, domestic 50, fire 80 to 100 pounds; works owned by company; cost to construct \$85,000; cost to date \$93,000. Supt. J. T. Berry.

Waverly, Bremer Co., population 4,000; fire area 2 miles; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, cotton good 1,000 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 60, volunteers; bell alarm; 4 fire companies, 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, O. H. Barrows.

WATER SUPPLY—Source, river and well; system, pumping to reservoir, cap 3,000,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 40; pipe 4 miles, 4 to 8 in dia; service pipe cast iron; pressure, domestic 55, fire 110 pounds; works owned by city; original cost to construct \$18,000; expenses of construction to date \$21,000; ann expenses \$1,000. Supt. H. C. Risk.

Webster City, Hamilton Co., population 4,000; fire area 450 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hook and ladder trucks, 3 hose carriages, hose, rubber good 400 ft, rubber inferior 100 ft, cotton good 1,000 ft; value of fire department equipment \$4,000; value of buildings occupied \$500; total membership 38, volunteers; bell alarm. Chief engineer, C. B. Stoddard.

WATER SUPPLY—Source, wells; system, pumping to reservoir, reservoir cap 105,000 gals; pumping engines, dy cap 78,800 gals; hydrants 26; pipe 5 miles, 4 and 8 in dia; 6 valves; service pipe ½ and 1 in galv iron; pressure, domestic 20, fire 120 pounds; works owned by city; original cost to construct \$10,000; expenses of construction to date \$17,000; ann expenses \$1,800. Chairman of com, Jno. Quackenbush; supt, F. A. Mullen.*

West Liberty, Muscatine Co., population 2,000; fire area 60 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 250 ft, inferior 200 ft, cotton good 900 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,250; ann expenses \$100; total membership 60, volunteers. Chief engineer, L. B. Pickering; chairman of fire and water com, A. W. Mead.

WATER SUPPLY—Source, well; system, pumping to reservoir and direct; reservoir cap 50,000 gals; pumping engines, dy cap 500,000 gals; hydrants 27; pipe 2 miles, 4 to 8 in dia; 5 valves; service pipe galv iron; pressure, domestic 35, fire 100 pounds; works owned by city; original cost to construct \$14,000; ann expenses \$650. Supt. C. E. Chesebrough.

West Union, Fayette Co., population 2,000;

fire area 330 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, other apparatus; hose, cotton good 1,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$500; total ann expenses of department \$150; total membership 60, volunteers; bell alarm. Chief engineer, G. D. Beaton.*

WATER SUPPLY—Source, 4 wells; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 750,000 gals; hydrants 18; pipe 3 miles, 4, 6, 8 in dia; 10 valves; tape 75; service pipe galv iron; pressure, domestic 40, fire 40 to 175 pounds; works owned by city; original cost to construct \$18,000; ann expenses \$500; int paid on bonds \$800. Supt. J. P. Parrott.*

What Cheer, Keokuk Co., population 3,246 fire area 800 acres; mercantile buildings, brick and frame, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, 2 ladders; hose, cotton good 200 ft, inferior 700 ft, rubber good 300 ft; value of fire department equipment \$4,000; value of buildings occupied \$4,000; total membership 25, paid part time 1, volunteer members 25; bell alarm. Chief engineer, H. L. Campbell.

WATER SUPPLY—Source, creek, connection with R. R. tank; cap of standpipe 1,500 bbls; 1 hydrant; pipe 500 yds, size 4 in; 1 valve; pressure 15 pounds; owned by city; cost to construct \$25. Water com, E. C. Lambert.

Wilton Junction, Muscatine Co., population 1,350; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$1,500; total ann expenses of department \$40; total membership 60, volunteers; whistle and bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer and chairman of fire and water com, Thos. Sherwood.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir; reservoir cap 37,000 gals; pumping engines, dy cap 18,000 gals per hour; hydrants 24; 30 blocks; pipe 3 in dia; valves 3; pressure, domestic 40, fire 200 pounds; works owned by city; cost to construct \$10,000. Supt. C. B. Strong.

Winterset, Madison Co., population 2,581; fire area 3 blocks square; mercantile buildings, brick and iron, 2 stories; private, brick, stone and wood, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,600 ft, inferior 100 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total membership 30, volunteers; steam whistle alarm. Chief engineer, John McAndrew.

WATER SUPPLY—Source, wells. (Some talk of waterworks.)

KANSAS.

Abilene, Dickinson Co., population 4,000; fire area 640 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—40 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,800 ft, rubber good 1,000 ft; value of fire department equipment \$4,000; value of buildings occupied \$17,000; total ann expenses of department \$450; total membership 32, volunteers; whistle and bell alarm; 4 fire companies. Chief engineer, G. D. Kieffer.

WATER SUPPLY—Source, springs; system, pumping direct; cap of standpipe 150,000 gals; pumping engines, dy cap 1,000,000 gals; 68 hydrants; 14 miles pipe; quality of water good; pressure, domestic 40, fire 90 pounds; works owned by company; cost to construct \$190,000. Pres and supt of com, J. E. Bonebrake.

Anthony, Harper Co., population 2,132; build-

ings, stone, brick and wood, 1 and 2 stories. Fire department—hose, rubber good 900 ft, cotton good 500 ft; value of apparatus, house and lot, \$3,000; total ann expenses of department \$300; 45 men, volunteers; bell alarm; 2 hose companies. Chief engineer, Thos. F. Fanning.

WATER SUPPLY—Source, Bluff creek and well; system, pumping to standpipe; standpipe cap 150,000 gals; pumping engines, dy cap 1,500,000 gals; 75 hydrants; pipe 9 miles, 6 to 10 dia; works owned by company. C. S. Poole, receiver.

Argentine, Wyandotte Co., population 6,000; fire area 2 miles; mercantile buildings, stone and wood, 2 and 3 stories; private, stone, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500 ft; 2 hoses, value \$350; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$2,500; total membership 14,

paid full time 2, paid part time 2; Gamewell electric alarm. Chief engineer, F. E. Goodway.

WATER SUPPLY—Source, Kansas river and wells; system, pumping to standpipe; standpipe cap 500,000 gals; 2 pumping engines, dy cap 2,500, 000 gals; 48 hydrants; pipe 10 miles, 4 to 12 in dia; pressure 120 pounds; works owned by company; original cost to construct \$125,000; ann expenses \$5,500. Supt, F. Baker.

Arkansas City, Cowley Co., population 8,347; fire area 1,000 acres; mercantile buildings, stone and brick, 2 stories; private, stone, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,200 ft, inferior 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$6,000; total ann expenses of department \$1,500; total membership 44, volunteers, paid full time 1; electric alarm; total no of fire companies 3. Chief engineer, A. Lowry.*

WATER SUPPLY—Source, springs; system, pumping to standpipe; pumping engine, dy cap 2,500,000 gals; 184 hydrants; pipe 18 miles, 4 to 10 in dia; 80 valves; 30 meters; pressure, domestic 50 to 75, fire 50 to 150 pounds; cost to construct \$150,000; int on bonds 8 per cent. Supt, M. C. Capple; receiver, Geo. H. Hopper.

Armouredale, Wyandotte Co. (See Kansas City.)

Armstrong, Wyandotte Co. (See Kansas City.)

Atchison, Atchison Co., population 13,933; fire area 140 acres; mercantile buildings, brick and stone, 2 to 5 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500 ft, rubber good 1,500 ft, rubber poor 1,000 ft; 4 horses, value \$800; value of fire department equipment \$5,500; value of buildings occupied \$7,000; total ann expenses of department \$5,500; total membership 10, paid full time 7, paid part time 3; telephone alarm. Chief engineer, John Compton.

WATER SUPPLY—Source, Missouri river; system, gravity; 2 reservoirs, cap 5,000,000 gals; pumping engine, dy cap 2,000,000 gals; 103 hydrants; pipe 13 miles, 4 to 12 in dia; 112 valves; works owned by company; original cost to construct \$150,000. Supt, R. S. Wills.

Baxter Springs, Cherokee Co., population 1,248; fire area 24 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; no fire department. Chairman of fire and water com, G. G. Goetz.*

WATER SUPPLY—Source, springs, river.*

Beloit, Mitchell Co., population 2,455; fire area 40 acres; mercantile buildings, stone and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,250 ft, linen new 400 ft; value of fire department equipment \$2,500; total ann expenses of department \$240; total membership 45, all volunteers; bell alarm; 3 hose companies. Chief engineer, J. P. Cadden.

WATER SUPPLY—Source, well and river; system, pumping to reservoir, standpipe and direct; reservoir cap 100,000 gals; pumping engines, dy cap 1,750,000 gals; 70 hydrants; pipe 7 miles; pressure, domestic 60, fire 70 pounds; works owned by company; original cost to construct \$54,000. Supt, A. T. Rodgers.

Bird City, Cheyenne Co., population 250; no organized fire department.*

WATER SUPPLY—Source, 4 wells; system, pumping to reservoir; reservoir cap 35,000 gals; pumping engines, 10 hour cap 40,000 gals; 3 hydrants; pipe 1½ miles, 3 and 2 in dia; waterworks owned by city; original cost to construct \$5,000; expenses of construction to date \$6,000; ann expenses \$800; int paid on bonds \$350. City clerk, J. F. Van Doren.*

Nine Rapids, Marshall Co., population 1,114; fire area 800 acres; mercantile buildings, stone, brick and wood, 1½ and 2 stories; private, stone and wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 500 ft; value of fire department equipment

\$600; value of buildings occupied \$300; total membership 25, volunteers; bell alarm. Chief engineer, C. A. Walkins.*

WATER SUPPLY—Source, river; system, pumping to reservoir, cap 200,000 gals; pumping engines, dy cap 250,000 gals; 16 hydrants; pipe 2½ miles, 1 to 6 in dia; pressure, domestic 110, fire 140 pounds; works owned by city; cost to construct \$28,000; ann expenses \$400. Supt, R. Sanborn.

Bunker Hill, Russell Co., population 250; fire area 40 acres; mercantile buildings, stone and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—hose, rubber good 250 ft.*

WATER SUPPLY—Source, Sandstone springs, located 2 3-4 miles south of city; system, pumping to reservoir; reservoir cap 60,000 gals; pumping engines, cap 45,000 gals in 10 hours; 9 hydrants; pipe 4 miles, 3 in dia; pressure, domestic 35, fire 50 pounds; waterworks owned by city; cost to construct \$3,500; ann expenses \$350. Supt, W. H. Biays.

Burlingame, Osage Co., population 1,472; fire area 230 acres; mercantile buildings, stone and wood, 2 stories; private, 1½ and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 chemical engine, 6 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 150 ft, inferior 50 ft; value of fire department equipment \$1,200; total ann expenses of department \$100; value of buildings occupied \$2,000; total membership 25, all volunteers. Chief appointed by mayor, W. T. Thomas.*

WATER SUPPLY—Source, wells.*

Burlington, Coffey Co., population 2,700; fire area 40 acres; mercantile buildings, stone and brick, 2 stories; private, wood; roofs tin and gravel; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, 2 hose wagons; hose, cotton good 2,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 30, volunteers; bell alarm. Chief engineer, Geo. G. Hall.

WATER SUPPLY—Source, Neosho river; system, pumping to standpipe; cap of reservoir 65,000 gals; standpipe cap 45,000 gals; pumping engines, dy cap 2,000,000 gals; 70 hydrants; pipe 5 miles, 4, 6, 8 and 10 in dia; 15 valves; pressure, domestic 60, fire 100 pounds; waterworks owned by company; cost to construct \$75,973; ann expenses \$2,000. Supt, R. C. Haddison.

Caldwell, Sumner Co., population 2,400; mercantile buildings, stone, brick and wood, 1, 2 and 3 stories; private, wood and brick, 1 story; wooden roofs not permitted in fire limit. Fire department—3 hose carts, hooks, ladders, axes, etc; hose, rubber good 1,300 ft, inferior 200 ft, linen good 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total membership 36, all volunteers; bell alarm. Chief engineer, John W. Nyce.

WATER SUPPLY—Source, creek, 1 mile south of town; system, pumping to standpipe; standpipe cap 125,000 gals; pumping engines, dy cap 1,500,000 gals; 56 hydrants; pipe 6 3-4 miles, 4 to 10 in dia; 20 valves; pressure, domestic 70, fire 140 pounds; works owned by company; cost to construct \$85,000; ann expenses \$2,500. Supt and mayor, S. Harvey Homer.

Cawker City, Mitchell Co., population 1,000; fire area 10 acres; mercantile buildings, wood, stone and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 700 ft; value of fire department equipment \$500; total membership 50, volunteers; bell alarm; 1 fire company. Chief engineer, J. W. McGhee.

WATER SUPPLY—Source, cistern, 300 bbls cap.

Cherokee, Crawford Co., population 1,500; mercantile buildings, wood and brick, 1 and 2 stories; private, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck and buckets, 1 chemical extinguisher; value of equipment \$500; value of buildings \$50; membership 30, volunteers; bell alarm. Chief engineer, Frank Price.

WATER SUPPLY—Source, wells and cisterns.

Cherryvale, Montgomery Co., population 2,400; buildings, brick and wood, 1 and 2 stories.

Fire department—2 hose carts; hose, rubber good 600 ft, cotton good 400 ft; total membership 23. Chief, J. S. Stewart.

WATER SUPPLY—Source, Lake Tanka; system, pumping to standpipe; standpipe cap 40,000 gals; pumping engines, dy cap 2,000,000 gals; 47 hydrants; pipe 6 miles, 4 to 10 in dia; 10 valves; service pipe iron; pressure, domestic 30, fire 70 pounds; works owned by company; original cost to construct \$100,000; ann expenses \$2,500. Receiver, J. M. Courtney; clerk, Geo. H. Evans, Jr.

Chetopa, Labette Co., population 2,700; fire area 5 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—Buckey brigade; total membership 20, volunteers; bell alarm.

WATER SUPPLY—Source, river and wells.

Clay Centre, Clay Co., population 3,000; fire area 120 acres; mercantile buildings, stone and brick, 3 and 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft, inferior 800 ft, cotton good 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$4,000; total ann expenses of department \$700; total membership 48, volunteers 45; 4 fire companies. Chief engineer, R. W. Jones.

WATER SUPPLY—Source, river; system, pumping to reservoir; pumping engines, dy cap 2,000,000 gals; 41 hydrants; pipe 4 miles, 4 to 10 in dia; 24 valves; pressure, domestic 55, fire 80 pounds; waterworks owned by company; cost to construct \$80,000; ann expenses \$2,500. Supt, Jas. A. Hanna.*

Clyde, Cloud Co., population 1,137; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 400 ft, inferior 400 ft; total membership 15, all volunteers; gong alarm; 1 hose company. Chief engineer, Norman Gwyne.

WATER SUPPLY—Source, well 126 ft deep; system, pumping to standpipe; standpipe cap 102,800 gals; pumping engines, dy cap 850,000 gals; 38 hydrants; pipe 4 miles, 2 to 12 in dia; 14 valves; 165 taps; service pipe galv iron; pressure, domestic 50, fire 70 pounds; works owned by city; original cost to construct \$30,000; expenses of construction to date \$30,200; ann expenses \$850. Supt, F. G. Groff.

Columbus, Cherokee Co., population 2,160; mercantile buildings, stone and brick, 2 stories; private, wood, 1½ stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hose carriages; hose, rubber good 800 ft, inferior 200 ft; value of value of fire department equipment \$1,800; value of buildings occupied \$300; total ann expenses of department \$100; total membership 19, paid part time. Chief engineer, John H. Hamilton.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir and standpipe; cap 125,000 gals; reservoir cap 300,000 gals; Buffalo and Blake pumping engines, dy cap Blake 400,000 gals, Buffalo 1,000,000 gals; 50 hydrants; pipe 4 3-4 miles, 4, 6 and 8 in dia; 8 valves; 3 meters; quality of water soft, pure; pressure, domestic 70, fire 250 pounds; works owned by company; ann expenses \$1,050; int on bonds 6 per cent. Pres of com, Robert A. Long.

Comcordia, Cloud Co., population 3,748; mercantile buildings, brick and stone, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber inferior 950 ft, cotton good 1,000 ft; value of department equipment \$1,600; value of buildings occupied \$1,000; total ann expenses of department \$72; total membership 41, volunteers; bell alarm. Chief engineer, W. R. Hinkel.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; cap 100,000 gals; pumping engines, dy cap 1,000,000 gals; 50 hydrants; pipe 6½ miles, 4, 6, 8 and 10 in dia; 32 valves; pressure, domestic 180 pounds; works owned by city; cost to construct \$45,000; ann expenses \$1,800; int on bonds \$2,250. Supt, J. H. Tyner.

Coolidge, Hamilton Co., population 472. Fire department—1 hose cart with 800 ft good hose.

WATER SUPPLY—Source, artesian wells; system, pumping from reservoir and direct to standpipe; reservoir cap 400,000 gals; standpipe cap 110,000 gals; pumping engines, dy cap 125,000 gals; 11 hydrants; pipe 2½ miles, 2 to 6 in dia; 12 valves; pressure, domestic 50, fire 120 pounds; works owned by company; original cost to construct \$38,500; expenses of construction to date \$39,000; ann expenses \$1,200. Owners, Santa Fe R. R. Co.

Connell Grove, Morris Co., population 2,211; fire area 700 acres; mercantile buildings, brick and stone, 2 stories; private, wood, and brick, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; total membership 31, all volunteers; whistle and bell alarm. Chief engineer, A. N. Pitsenberger.*

WATER SUPPLY—Source, well and river; system, gravity and pumping to standpipe, cap 180,000 gals; pumps, dy cap 2,000,000 gals; 48 hydrants; pipe 5 miles, 6 to 12 in dia; 36 valves; 90 taps; pressure, domestic 80, fire 180 pounds; cost to construct \$75,000; ann expenses \$4,000; int on bonds 6 per cent. Pres, Wm. Hunkle; manager, Preston Little.

Cullisom, Pratt Co., population 288; fire area 4 blocks; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hose carriage; hose, rubber good 600 ft; value of equipment \$800; total membership 18, volunteers. Capt, J. S. Bunsold.

WATER SUPPLY—Source, wells; system, pump to tank and direct; cap 54,000 gals; dy cap of pumps 144,000 gals; pipe 1½ miles; 8 hydrants; 4 valves; pressure, domestic 80, fire 125 pounds; cost to construct \$7,000; ann expenses \$400. Supt, J. Hansell.

Dodge City, Ford Co., population 1,763; fire area 3-4 miles sq; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,400 ft, inferior 200 ft; value of fire department equipment \$2,500; value of buildings occupied \$20,000; total ann expenses of department \$100; total membership 60, all volunteers; bell alarm; 3 fire companies. Chief engineer, R. H. Wright.*

WATER SUPPLY—Source, well; system, pumping to standpipe; standpipe cap 88,400 gals; pumping engines, dy cap 750,000 gals each; 55 hydrants, pipe 9 1-2 miles, 4, 6, 8, 10 and 12 in dia; 32 valves; pressure, domestic 80, fire 90 to 200 pounds; works owned by company; cost to construct \$75,000. Supt, G. G. Gilbert.*

Downs, Osborne Co., population 938; fire area 160 acres; mercantile buildings, wood, brick and stone, 2 stories; private, wood, 1 1-2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft, rubber good 800 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$100; total membership 20, volunteers; bell alarm. Chief engineer, J. W. Keirns.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 200,000 gals; 24 hydrants; pipe 3 miles, 4 to 6 in dia; 7 valves; pressure, domestic 60, fire 70 pounds; waterworks owned by city; cost to construct \$30,700; ann expenses \$2,000. Supt, J. W. Keirns.

Eldorado, Butler Co., population 3,339; fire area 8 square miles; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton good 300 ft, rubber good 2,500 ft; total membership 80, all volunteers; bell alarm; 1 hook and ladder company, 4 hose companies. Chief engineer, A. Conley.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 120,000 gals; pumping engines, dy cap 1,000,000 gals; 67 hydrants; pipe 8 miles, 12 to 4 in dia; 29 valves; pressure, domestic 90, fire 110 pounds; waterworks owned by company; original cost to construct \$65,000; ann expenses \$2,900. Supt, Wm. H. Fountain.

Ellsworth, Ellsworth Co., population 2,000; fire area 820 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages, all kinds; hose, rubber good 1,200 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total ann expenses of department \$50; total membership 40, volunteers. Chief engineer, W. E. Sheriff.*

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 53; pipe 5 miles, 4 to 8 in; pressure, domestic 80, fire 100 pounds; waterworks owned by city; original cost to construct \$50,000; ann expenses \$1,800. Supt, C. F. Pohlman.

Emporia, Lyon Co., population 7,551; fire area 25 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft, inferior 1,200 ft, cotton good 1,500 ft; 4 horses, value \$900; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$2,050; total membership 13, paid full time 2, paid part time 11; telephone alarm; 1 fire company. Chief engineer, C. P. Thela.

WATER SUPPLY—Source, Neosho river; system, pumping to reservoir; reservoir cap 15,000,000 gals; pumping engines, dy cap 4,500,000 gals; hydrants 117; pipe 28 miles, 3 to 16 in dia, Shickel, Harrison & Howard; 200 valves; service pipe, galv iron; pressure, domestic 35, fire 100 to 120 pounds; works owned by city; expenses of construction to date \$278,000; ann expenses \$6,000; int paid on bonds \$12,350. City civil engineer, Robt. Strout.

Enterprise, Dickinson Co., population 1,200; fire area 200 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$600; value of buildings occupied \$200; total membership 20, volunteers; bell alarm. Chief engineer, H. H. Hassler.*

WATER SUPPLY—Source, well; system, direct pressure; pumping engines, dy cap 1,000,000 gals; hydrants 11; pipe 2½ miles, 8 to 3 in dia; pressure, domestic 60, fire 140 pounds; waterworks owned by city; original cost to construct \$11,000; expenses of construction to date \$15,000; ann expenses \$600. Supt, J. B. Ehrsam.

Erle, Neosho Co., population 1,176; fire area 1,000 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—Hooks and ladders, ropes, axes, buckets, etc; total membership 150, volunteers; bell alarm. Chief engineer, F. S. Harbough.*

WATER SUPPLY—Source, wells.*

Eureka, Greenwood Co., population 2,250; fire area 640 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, inferior 800 ft, linen good 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$5,000; total ann expenses of department \$100; total membership 80; volunteer members 80; electric bell alarm. Chief engineer, E. S. Sellick.

WATER SUPPLY—Source, river; system, pumping to standpipe and direct into water mains; standpipe cap 250,000 gals; pumping engines, dy cap 550,000 gals; 36 hydrants; pipe 6 miles, 4, 6, 8, 10 and 12 in dia; 12 valves; pressure, domestic 80, fire 100 pounds; works owned by city; cost to construct \$50,000; ann expenses \$800; int on bonds \$2,600. Supt, Joel Stillwell.*

Fort Riley, Geary Co., population 1,000; buildings, stone, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,500 ft. This is a military post, and the entire garrison is a fire department when necessity demands.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 500,000 gals; pumping engines, dy cap 1,000,000 gals, Deane; y-

drants 34; pipe 5 miles, 4, 6 and 8 in dia; 21 valves; service pipe, galv iron; pressure, domestic 60 to 75, fire 100 pounds; works owned by United States Government; original cost to construct \$43,180. Supt, J. E. Wiest.

Fort Scott, Bourbon Co., population 11,946; fire area 320 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 800 ft, rubber inferior 300 ft, cotton good 1,500 ft; 3 horses, value \$450; value of fire department equipment \$6,000; value of buildings occupied \$600; total ann expenses of department \$3,300; total membership 15, paid full time 5; Gamewell alarm; street boxes 14. Chief engineer, J. G. Ansman.

WATER SUPPLY—Source, Marmaton river; system, pumping to reservoirs; standpipe and direct; reservoir cap 25,000,000 gals; standpipe cap 180,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 87; pipe 33 miles, 4 to 16 in dia; 180 valves; pressure, domestic 35, fire 125 pounds; works owned by company. Supt, Richard S. Worthington.

Fredonia, Wilson Co., population 1,515; fire area 390 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage, hooks and ladders; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total ann expenses of department \$450; total membership 20, all volunteers; bell alarm. Chief engineer, Isaac Hudson.

WATER SUPPLY—Source, Fall river, 1½ miles distant; system, pumping to reservoir and direct; reservoir cap 2,600,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 52; pipe 7 miles, 4, 6, 8, 10 in dia; 20 valves; pressure 85 pounds; works owned by company; ann expenses \$6,000. Supt, Ben. S. Paulsen.

Garden City, Finney Co., population 1,490; fire area 200 acres; mercantile buildings, brick and stone, 1 to 5 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 800 ft, inferior 1,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$200; total ann expenses of department \$600; total membership 31, volunteer members 31; bell alarm. Chief engineer, Sam Craig.

WATER SUPPLY—Source, well; system, pumping to standpipe; reservoir cap 50,000 gals; standpipe cap 90,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 42; pipe 4 miles, 4 to 12 in dia; valves 22; service pipe cast iron; pressure, domestic 50, fire 80 pounds; works owned by city; original cost to construct \$50,000; ann expenses \$1,500. Supt, W. E. Trull.

Garnet, Anderson Co., population 2,200; fire area 20 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$500; total membership 38, all volunteers; bell alarm; 3 hose companies 1 hook and ladder company. Chief engineer, A. E. Donthet.

WATER SUPPLY—Source, artificial lake; system, pumping to standpipe; standpipe cap 50,000 gals; pumping engines, dy cap 750,000 gals; hydrants 29; pipe 4 miles, 4, 6, 8, 10 in dia; 8 valves; pressure, domestic 60, fire 120 to 150 pounds; works owned by city; original cost to construct \$34,000. Supt, J. N. Jackson.

Girard, Crawford Co., population 3,000; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 200 ft, rubber inferior 400 ft; value of fire department equipment \$200; value of buildings occupied \$500; total ann expenses of department \$175; total membership 10, paid full time; bell alarm. Chief engineer, T. N. Lake.*

WATER SUPPLY—Source, wells; system, pumping to tank; cap of tank 60,000 gals; cap of pumps per day 180,000 gals; 2½ mile pipe, 4 to 8 in; hydrants 20; pressure, domestic 40 to 50 lbs, fire 50 to 60 lbs; works owned by city; cost to construct \$20,000; ann expenses \$600. Supt, Wm. Osborne.

Goodland, Sherman Co., population 1,600; fire area 160 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,000; total membership 20, volunteers. Chief engineer, E. A. Woods.*

WATER SUPPLY—Source, 3 deep wells; system, pumping to reservoir; reservoir cap 16x20 ft, pumping engines 12 hr cap 100,000 gals; pipe 7 miles, 6 in dia; pressure, domestic 20, fire 80 pounds; waterworks owned by city; cost to construct \$7,000; ann expenses \$2,400. Chairman of com, J. Ayuora.

Great Bend, Barton Co., population 3,000; mercantile buildings, brick and stone, some iron, 1, 2 and 3 stories; private, wood; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hose carriages; several Babcock extinguishers; hose, cotton good 1,200 ft; value of fire department equipment \$2,650; value of buildings occupied \$1,000; total ann expenses of department \$400; total membership 16, all volunteers; 1 hose company. Chief engineer, Will E. Stoke.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 127,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 51; pipe 4½ miles, 6 to 10 in dia; 25 valves; service pipe galv iron; pressure, domestic 35 to 65, fire 110 pounds; works owned by company; original cost to construct \$55,000; expenses of construction to date \$80,000; ann expenses \$2,200. Supt, J. A. Pritchard.

Greensburg, Kiowa Co., population 700; fire area 180 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hook and ladder trucks, 2 hose carriages; hose, cotton good 1,300 ft, inferior 100 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; membership 8, volunteers; bell alarm. Chief engineer, Unot Clapp.

WATER SUPPLY—Source, well, 110 feet deep by 30 in dia; system, pumping to reservoir and direct; hydrants 35; pipe 4 miles, 8 and 4 in dia; quality of water pure; works owned by city; cost to construct \$45,000; ann expenses \$700; int on bonds \$1,500. Mayor, T. E. Dempsey.

Halestead, Harvey Co., population 1,200; fire area 160 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, combined with chemical, 1 hook and ladder truck; hose, cotton good 530 ft; value of fire department equipment \$600; value of buildings occupied \$125; total ann expenses of department \$150; total membership 24, volunteers; bell alarm; 1 fire company. Chief engineer, G. A. Hoge.

WATER SUPPLY—Source, wells and river. Mayor, W. A. Barkemeyer.

Harper, Harper Co., population 1,579; fire area 6 blocks sq; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 450 ft, poor 150 ft, rubber good 500 ft; value of department equipment \$1,200; value of buildings \$200; total ann expenses of department \$433; membership 65, paid full time; bell alarm. Chief engineer, Will C. Shugart.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; standpipe cap 145,000 gals; pumping engines, dy cap 740,000 gals; hydrants 61; pipe 6 miles, 4 to 10 in dia; 15 valves; pressure, domestic 52, fire 150 pounds; works owned by company; original cost to construct \$90,000. Supt, W. J. Potter.

Haven, Reno Co., population 300; fire area 50 acres; mercantile buildings, brick and wood, 1, 1½ and 2 stories; private, wood, 1 story; tin and shin-

gle roofs. No organized fire department—200 buckets.

WATER SUPPLY—Source, well.

Herlington, Dickinson Co., population 1,353; mercantile buildings, brick, 1 and 2½ stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 2,000 ft; value of equipment \$1,500; value of buildings \$200; 15 volunteer members; electric bell. Chief engineer, Wm. E. Smith.

WATER SUPPLY—Source, springs; system, pumping direct; pumping engines, dy cap 2,000,000 gals; hydrants 14; pipe 5 miles, 4, 6 and 8 in dia; pressure, domestic 50, fire 100 pounds; works owned by city; original cost to construct 29,000. Supt, J. M. Hawkins.

Hinawatha, Brown Co., population 2,485; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories. Fire department—1 chemical engine, 5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of equipment \$2,500; value of buildings occupied \$3,000; expenses of department \$100; total membership 150, volunteers; bell alarm. Chief engineer, W. E. Hayner.*

WATER SUPPLY—Source, wells, 3 miles distant; system, pumping to standpipe; standpipe cap 135,000 gals; pumping engines, dy cap 250,000 gals; hydrants 46; pipe 6 miles, 4 to 10 in dia; 45 valves; galv iron service pipe; works owned by city; original cost to construct \$80,000; expenses of construction to date \$65,000; ann expenses \$2,500. Supt, J. K. Klinefelter.

Hilton, Jackson Co., population 3,000; fire area 12 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 Champion chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, other apparatus, 4 pumps on Public Sq; hose, rubber good 800 ft. Fire department not yet organized. Mayor, J. E. Gabel.

WATER SUPPLY—Source, 4 cisterns; cap of cisterns 600 bbls.

Hutchinson, Reno Co., population 8,682; fire area 2,500 acres; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 2,000 ft, rubber good 700 ft, inferior 400 ft; 2 horses; value \$400; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total expenses of department last year \$3,800; total membership 35, paid full time 4, paid part time 8, volunteers 30; telephone alarm. Fire marshal, A. J. Stout.

WATER SUPPLY—Source, inexhaustible wells; system, direct; pumping engines, dy cap 3-4 million gals; 187 hydrants; pipe 16 miles, 4, 6, 8, 10 and 12 in dia; 48 valves; pressure, domestic 45, fire 100 to 150 pounds; works owned by company; int on bonds 6 per cent. Pres and supt, L. A. Beebe.

Independence, Montgomery Co., population 3,127; fire area 40 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft, rubber good 1,600 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,600; total ann expenses of department \$400; total membership 11, paid part time 11, 11 volunteer members; bell alarm. Chief engineer, P. A. Ray.

WATER SUPPLY—Source, Viridigis river; system, pumping to reservoir; reservoir cap 103,000 gals; pumping engines, dy cap 1,250,000 gals; hydrants 60; pipe 8 miles, 2 to 4 in dia; 29 valves; taps 350; service pipe galv iron; pressure, domestic 42, fire 42 to 150 pounds; works owned by company. Supt, A. G. Harper.

Junction City, Geary Co., population 5,000; fire area 1,200 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 300 ft, rubber good 1,500 ft, inferior 600 ft, leather

inferior 400 ft; value of fire department equipment \$2,500; value of buildings occupied \$35,000; total ann expenses of department \$300; total membership 45, all volunteers; 1 hook and ladder company, 3 hose companies. Chief engineer, A. L. Barnes.

WATER SUPPLY—Source, wells; system, pumping to reservoir, cap 500,000 gals; pumping engines, dy cap 2,000,000 gals; 65 hydrants; pipe 11 miles, 4, 6, 8, 10 and 12 in dia; 49 valves; 12 meters; quality of water good; pressure, domestic 80, fire 80 to 140 pounds; works owned by city; cost to construct \$50,000; ann expenses \$5,518. Supt, C. T. Wisler.

Kansas City, Wyandotte Co., population 40,000; fire area 12 sq miles; mercantile buildings, brick and stone, 3 to 6 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 8 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, all kinds, 2 hose wagons; hose, rubber good 4,000 ft, inferior 2,000 ft; 15 horses, value \$2,500; value of fire department equipment \$8,000; value of buildings occupied \$32,000; total ann expenses of department \$20,000; membership 89, paid full time; telephone and electric alarm. Chief, C. E. Staub. Insurance patrol of 8 men (will purchase chemical engines).

WATER SUPPLY—Source, Missouri river; system, pumping to standpipe and reservoir, cap 60,000,000 gals; standpipe cap 2,000,000 gals; pumping engines; hydrants 230; pipe 85 miles, 42 to 2 in dia; 136 valves; pressure, domestic 40 to 110, fire 120 pounds; works owned by company. Supt, B. F. Jones.*

Kingman, Kingman Co., population 2,390; fire area 20 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,500 ft, inferior 100 ft; value of fire department equipment \$3,000; value of buildings occupied \$10,000; total ann expenses of department \$500; total membership 35, all volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, J. A. Russell.*

WATER SUPPLY—Source, drive well points in river bed; system, pumping to standpipe; standpipe cap 70,500 gals; pumping engines, dy cap 1,000,000 gals; 58 hydrants; pipe 5 miles, 4, 6, and 8 in dia, 20 valves; pressure, domestic 60, fire 85 to 100 pounds; works owned by company; cost to construct \$40,000. Supt, C. H. Thomas.

Kingsley, Edwards Co., population 771; fire area 80 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$1,500; value of buildings occupied \$600; total membership 25, all volunteers; bell alarm; 3 hose companies. Chief engineer, E. M. Boles.

WATER SUPPLY—Source, well; system, pump to standpipe; standpipe cap 180,000 gals; pumping engines, dy cap 1,000,000 gals; 25 hydrants; pipe 5 miles; quality of water good; pressure 65 pounds; works owned by company; cost to construct \$40,000. R. G. Stearns.*

Kirwin, Phillips Co., population 960; fire area 40 acres; mercantile buildings, wood, stone and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.

WATER SUPPLY—Source, wells, 32 to 38 ft deep. Town clerk, W. I. Wanda.

La Crosse, Rush Co., population 513; fire area 8 blocks; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels; hose, rubber good 300 ft; value of fire department equipment \$650. Chief engineer, J. W. Maxwell.

WATER SUPPLY—Source, 4 cisterns, 250 bbls caps.

Lansing, Leavenworth Co., population 1,800; fire area 50 acres; mercantile buildings, brick and wood, 1, 2 and 3 stories; private, wood, 1, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 3 hose carriages; hose,

cotton good 1,200 ft, rubber poor 150 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; bell and steam whistle alarm; fire patrol. Chief engineer, Dan Storrs.

WATER SUPPLY—Source, Missouri river; system, pumping to reservoir; reservoir cap 2,000,000 gals; dy cap pumping engines 500,000; 10 hydrants; pipe 3 miles, 2, 4, 6 and 8 in dia; 20 valves; pressure, domestic 40 to 80 pounds, fire same; works owned by state; cost to construct \$75,000; ann expenses \$1,200. Supt, Dan Storrs.

Larned, Pawnee Co., population 1,961; fire area 240 acres; mercantile buildings, brick and stone, 3 stories; private, brick, stone and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,500; total ann expenses of department \$200; total membership 50, all volunteers; bell alarm; 2 hose companies, 1 hook and ladder company. Chief engineer, H. M. Halloway.

WATER SUPPLY—Source, drive points in gravel bed of the Arkansas river; system, pumping to standpipe; standpipe cap 85,000 gals; pumping engines, dy cap 1,500,000 gals; 80 hydrants; pipe 8 miles, 4, 6, 8, 10 and 12 in dia; 40 valves; pressure, domestic 70, fire 100 pounds; works owned by company; cost to construct \$100,000; ann expenses \$3,250. Supt, J. J. Nesbit.

Lawrence, Douglas Co., population 9,997; fire area 1,500 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft, inferior 500 ft; 4 horses, value \$600; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$2,088; total membership 15, paid full time 2, paid part time 13; telephone and bell alarm. Chief engineer, B. J. Whitman.

WATER SUPPLY—Source, Kansas river; system, pumping to standpipe; cap of standpipe 240,000 gals; reservoir cap 4,000,000 gals; pumping engines, dy cap 2,500,000 gals; 144 hydrants; pipe 18 miles, 4 to 18 in dia; 30 valves; pressure, domestic 95, fire 170 pounds; works owned by company; cost to construct about \$100,000; ann expenses \$5,000. Manager, Geo. March.

Leavenworth, Leavenworth Co., population 22,000; fire area 42 acres; mercantile buildings, brick and iron, 2 to 5 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted in fire limits; fireworks ordinance. Fire department—4 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 3,200 ft, inferior 600 ft; 3 horses; value \$1,200; value of fire department equipment \$7,000; value of buildings occupied \$18,000; total ann expenses of department \$12,000; total membership 12, paid full time 12; telephone alarm. Chief engineer, P. Burns.

WATER SUPPLY—Source, Missouri river, system, gravity; reservoir cap 12,000,000 gals; pumping engines; 131 hydrants; pipe 23 miles, 4 to 18 in dia; service pipe lead, galv iron and iron; pressure 125 pounds; waterworks owned by company. Supt, S. Hastings.

Lindsborg, McPherson Co., population 968; fire area 8 acres; buildings, brick, stone and wood, 1 to 6 stories; wooden roofs permitted. No fire department—1 hook and ladder truck, 50 buckets. Marshal, A. Brant.*

WATER SUPPLY—Source, wells.*

Lyons, Rice Co., population 2,100; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hose carriages; hose, rubber good 1,150 ft, inferior 400 ft; value of fire department equipment \$1,200; value of buildings occupied \$5,000; total ann expenses of department \$520; total membership 25, all volunteers; bell alarm; 1 fire company. Chief engineer, Robt. Dinsmore.*

WATER SUPPLY—Source, well; system, pumping to tank and direct; tank cap 2,000 bbls; pumping engines; 36 hydrants; pipe 5½ miles, 4 to 8 in dia; tape 250; service pipe galv iron; pressure 35 pounds; works owned by city; cost to construct

\$36,000; ann expenses \$1,000. City clerk, E. A. McGoffin.

McPherson, McPherson Co., population 3,340; fire area 1,400 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hose carriage; hose, good rubber 600 ft, poor 300 ft; cotton good 700 ft, other apparatus, hooks and ladders, 4 portable hose reels; value of fire department equipment \$1,200; ann expenses \$300; total membership 16, paid part time. Chief engineer, Jas. B. Coe.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 63,000 gals; pumping engines, dy cap 460,000 gals; 55 hydrants; pipe 8½ miles, 4 to 10 in dia; 35 valves; 4 meters; service pipe galv iron; pressure, domestic 35, fire 80 to 120 pounds; works owned by company; original cost to construct \$125,000 including light plant. Pres and supt, F. F. Wilcox.

Manhattan, Riley Co., population 3,004; fire area 640 acres; mercantile buildings, brick and stone, 2 stories; private, stone and wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 1,300 ft; 2 sets ladders and hooks; value of fire department equipment \$2,000; value of buildings occupied \$600; bell alarm. Chief engineer, F. M. Emmons.

WATER SUPPLY—Source, driven Cook wells; system, gravity, pumping to reservoir; reservoir cap 750,000 gals; pumping engines, dy cap 750,000 gals each; 49 hydrants; pipe 8 miles, 2 to 10 in dia; 50 valves; service pipe galv iron; pressure 80 pounds; works owned by city; cost to construct \$68,000; expenses of construction to date \$70,000; ann expenses \$2,200. Supt, E. C. Pfuetze.

Marion, Marion Co., population 2,200; fire area 500 acres; buildings stone and wood, 2 stories; tin roofs. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; volunteer department, 25 members; bell alarm. Chief engineer, S. C. Freeland.

WATER SUPPLY—Source, wells and streams fed by springs four miles from town; system, pumping to standpipe and direct; standpipe cap 850,000 gals; pumping engines, dy cap 2,000,000 gals; 50 hydrants; pipe 5½ miles, 4, 6, 8, 10 and 12 in dia; 15 valves; pressure, domestic 45 to 50, fire 80 to 140 pounds; owned by company; cost to construct \$68,000; ann expenses \$2,000. Supt, Taylor Riddle.

Marysville, Marshall Co., population 3,000; fire area 40 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$200; total membership 40, all volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Christ Moser.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 57,570 gals; pumping engines, dy cap 250,000 gals; 55 hydrants; pipe 4½ miles, 4, 6, 8 and 10 in dia; 30 valves; works owned by company; cost to construct \$35,000; ann expenses \$720. Supt, E. L. Miller.

Medicine Lodge, Barber Co., population 1,089; fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 1½ stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hose carriage, ladders and hooks; hose, cotton good 700 ft; membership 30, volunteers; bell and steam whistle alarm. Chief engineer, Ambrose Allen.

WATER SUPPLY—Source, Elm creek; system, pumping direct; pumping engines, dy cap 700,000 gals each; 21 hydrants; pipe 3 miles, 4, 6 and 8 in dia; 16 valves; 89 taps; quality of water soft and good; pressure 40 to 60, fire 100 pounds; works owned by city; cost to construct \$19,000. Supt, Waldron Chase.

Minneapolis, Ottawa Co., population 2,200; fire area 80 acres; mercantile buildings, stone, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$2,500;

value of buildings occupied \$6,000; total ann expenses of department \$100; total membership 70, volunteers; electric alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Willi M. Chapin.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 212,000 gals; pumping engines, dy cap 2,250,000 gals; 51 hydrants; pipe 5½ miles, 4, 6, 8 and 10 in dia; 16 valves; pressure, domestic 63, fire 100 to 120 pounds; works owned by company; cost to construct \$80,000; cost to date \$92,000; ann expenses \$4,500. Supt, Jas. Ketner.

Moline, Elk Co., population 800; fire area 6 blocks; buildings, stone and wood, 1 and 2 stories; fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells; system, pumping to reservoir, cap 150 bbls; pumping engines, dy cap 500 bbls; 24 hydrants; pipe 1 mile, 2 in dia; quality of water hard; waterworks owned by city; cost to construct \$1,400; int on bonds 7 per cent. Mayor, W. H. Smithers; town clerk, Carl E. Goodwin.

Mound City, Linn Co., population 900; fire area 240 acres; buildings, brick and wood, 1 and 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; 300 ft cotton hose; value of fire department equipment \$800; total membership 50, all volunteers; bell alarm. Chief engineer, Jno. L. Gove.

WATER SUPPLY—Source, 5 large public cisterns.

Neodesha, Wilson Co., population 1,800; mercantile buildings, wood, 1½ and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, wells. Mayor, J. W. Sutherland.

Ness City, Ness Co., population 500; fire area 1 mile; mercantile buildings, stone, 1 to 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 chemical engine; value of buildings occupied \$500; total membership 20, all volunteers; bell alarm. Chief engineer, P. E. Frayer.

WATER SUPPLY—Waterworks contemplated.

Newton, Harvey Co., population 6,000; fire area 320 acres; mercantile buildings, brick and stone, 30 ft high; private, wood, 50 ft high; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft, rubber inferior 1,400 ft; value of fire department equipment \$1,000; value of buildings occupied \$100; total ann expenses of department \$1,298; total membership 60, all volunteers; bell alarm. Chief engineer, W. F. Thompson. (The above department disbanded.)

WATER SUPPLY—Source, Cook wells; system, pumping to standpipe; standpipe cap 400,000 gals; pumping engines, dy cap 2,000,000 gals; 115 hydrants; pipe 16 miles, 12 to 4 in dia; 14 valves; pressure, domestic 40, fire 150 pounds; waterworks owned by company. Supt, C. M. Glover.

Norton, Norton Co., population 2,000; fire area 160 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$600; total ann expenses of department \$225; total membership 25, 1 paid part time, volunteer members 24; bell alarm. Chief engineer, H. T. Thompson.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 80,000 gals; pumping engines, dy cap 1,000,000 gals; 24 hydrants; pipe 6½ miles; cost to construct \$30,000; ann expenses \$2,000. Water com, C. F. Shimeall.

Oberlin, Decatur Co., population 1,243; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance; 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,150 ft, inferior 50 ft; membership 28, volunteers; bell alarm. Chief, F. W. Casteline.

WATER SUPPLY—Source, wells; system, pump to standpipe and direct; cap of standpipe 80,000 gals; pumping engines, dy cap 1,000,000 gals; pipe 4 miles; 43 hydrants; pressure, domestic 72, fire 120

pounds; cost to construct \$30,000. Supt. H. D. Colvin.

Olathe, Johnson Co., population about 4,000; fire area 600 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 600 ft, cotton good 900 ft; 2 horses, value \$300; value of fire department equipment \$3,500; value of buildings occupied \$600; total ann expenses of department \$500; total membership 26, volunteers; bell alarm; 2 fire companies. Chief engineer, M. McCarthy.

WATER SUPPLY—Source, surface water and springs; system, pumping direct; reservoir cap 100,000,000 gals; pumping engines, dy cap 750,000 gals; 35 hydrants; pipe 3½ miles, 4 and 8 in dia; 16 valves; service pipe lead and iron; pressure, domestic 50, fire 80 pounds; works owned by city; original cost to construct \$37,000; ann expenses \$2,750. Supt. M. McCarthy.

Osage City, Osage Co., population 4,100; fire area 6 blocks; mercantile buildings, stone and brick, 1, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck. City marshal, Thos McMillin.

WATER SUPPLY—No works. City clerk, L. L. Bodelle.

Osborne, Osborne Co., population 1,500; fire area 35 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 1 and 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,000; total ann expenses of department \$2,000; total membership 34, volunteer; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, J. B. Hatfield.

WATER SUPPLY—Source, wells; system, pumping direct; tank cap 60,000 gals; pumping engines, dy cap 180,000 gals; hydrants 18; pipe 20,072 ft, 6 in dia; 12 valves; pressure 30 pounds; works owned by city; cost to construct \$18,000. Supt. A. A. Nolan.

Oswego, Labette Co., population 2,574; fire area 1,300 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 4 chemical extinguishers, 2 hose carriages, 2 hose couplings used; hose, good 150 ft, inferior 100 ft, rubber good 1,000 ft; value of fire department equipment \$7,000; value of buildings occupied \$2,000; total ann expenses of department \$8,000; total membership 30, all volunteers; bell alarm. Chief engineer, O. R. Sigumes. (Co. disbanded for the present.)

WATER SUPPLY—Source, Neosho river, 1-2 mile north of town; system, pumping to standpipe and direct; standpipe cap 85,000 gals; Duplex pumping engines, dy cap 2,000,000 gals; 51 hydrants; pipe 5 miles; 28 valves; pressure, domestic 80, fire 180 to 175 pounds; works owned by company; cost to construct \$55,000. Pres and supt, O. W. Ball.

Ottawa, Franklin Co., population 7,500; fire area 900 acres; mercantile buildings, stone and brick, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon, 2 hose reels; hose, rubber good 2,500 ft, cotton inferior 900 ft; 3 horses, value \$500; value of fire department equipment \$10,000; value of buildings occupied \$3,500; total ann expenses of department \$2,500; total membership 36, paid full time, 1, paid part time 35; Interstate electric alarm; street boxes 14; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, A. P. Elder.

WATER SUPPLY—Source, well and river; system, pumping to standpipe; pumping engines, dy cap 1,500,000 gals; hydrants 82; pipe 10 miles, 4 to 10 in dia; 34 valves; 7 meters; pressure, domestic 50, fire 80 to 115 pounds; works owned by company;

original cost to construct \$80,000. Supt. J. W. Pollock.

Paola, Miami Co., population 3,000; fire area 30 acres; mercantile buildings, brick, 2 stories; private, wood, 1½-2; wooden roofs are not permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft, inferior 400 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total membership 14, all volunteers; bell alarm. Chief engineer, F. H. F. Gray.

WATER SUPPLY—Source, Bull creek; system, pumping to standpipe; reservoir cap 65,000,000 gals; standpipe cap 100,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 57; pipe 6 1-2 miles, 4 to 10 in dia; 18 valves; service pipe galv iron; pressure 65 pounds; works owned by company; original cost to construct \$35,000; expenses of construction to date \$78,000. Mgr. E. W. Robinson.

Parsons, Labette Co., population 8,000; fire area 50 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—20 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,800 ft, rubber, inferior 1,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; total ann expenses of department \$450; total membership 50, paid part time; bell alarm. Chief engineer, H. E. Hall.

WATER SUPPLY—Source, big Labatte creek and Neosho river; system, pumping to standpipe and direct; standpipe cap 375,000; pumping engines, dy cap 8,500,000 gals; hydrants 97; pipe 30 miles, 4 to 16 in dia; 32 valves; 40 meters; service pipe, lead iron and galv iron; pressure, domestic 60, fire 120 pounds; works owned by company; original cost to construct \$250,000; ann expenses \$3,000. Supt. W. K. Hayes.

Peabody, Marion Co., population 2,000; mercantile buildings, stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$7,000; total membership 25, volunteers; bell alarm; 1 fire company. Chief engineer, T. A. Slaymaker.

WATER SUPPLY—Source, 5 wells; system, pumping to tank and direct; cap of tank 60,000; 25 hydrants; 2 1-2 miles iron mains. Supt. A. H. Smock.

Phillipsburgh, Phillips Co., population 1,190; fire area 10 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 1-2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$500; value of buildings occupied \$100; total membership 30, volunteers; bell alarm; 1 fire company. Chief engineer, E. E. Brainerd.

WATER SUPPLY—Source, wells; system, pumping to tank; cap 1,800 bbls; pumping engines, dy cap 1,000,000 gals; 30 hydrants; pipe 4 1-3 miles, 2, 4 and 6 in dia; 10 valves; quality 1-2 water good; pressure, domestic 35, fire 85 to 100 pounds; works owned by city; cost to construct \$23,000; ann expenses \$1,000; int on bonds 6 per cent. Supt. E. E. Brainerd.

Pittsburg, Crawford Co., population about 8,000; fire area 1,280 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$4,000; total ann expenses of department \$1,000; total membership 84, volunteers; Gamewell electric alarm. Chief engineer, W. H. Holmes.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir and standpipe; reservoir cap 600,000 gals; standpipe cap 70,000 gals; pumping engines, dy cap 2,000,000 gals; 100 hydrants; pipe 13 miles, 4 to 12 in dia; 58 valves; service pipe, lead; pressure, domestic 45, fire 100 pounds; works owned by company; original cost to construct \$150,000; ann expenses \$4,000; int paid on bonds \$8,000. Supt. W. G. Seabury.

Pleasanton, Linn Co., population 1,150; fire area 40 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 750 ft, poor 50 ft; value of fire department equipment \$900; value of buildings occupied \$200; ann expenses \$25; 12 volunteer members; bell alarm. Chief engineer, J. A. Gentle.

WATER SUPPLY—Source, artificial lake; system, pumping to reservoir; reservoir cap 150,000 gals; pumping engines, dy cap 50,000 gals; 32 hydrants; pipe cast iron 3 miles, 4, 6 and 8 in dia; 10 valves; pressure 40 pounds; works owned by city; original cost to construct \$16,000; ann expenses \$300. Supt. A. W. Kent.

Mesodale, Wyandotte Co., population 2,200; fire area 320 acres; mercantile buildings, wood, 1, 1 1/2 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck; total membership 25, volunteers. Chief engineer, L. O. Wilks.

WATER SUPPLY—Source, wells, cisterns and creek. Mayor, S. J. Jones.

Russell, Russell Co., population 961; fire area 6 1/2 blocks; mercantile buildings, iron, stone and wood, 1 and 2 stories; private, stone and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$2,500; value of building occupied \$2,000; total membership 31, all volunteers; bell alarm. Chief engineer, J. L. Phinney. #

WATER SUPPLY—Source, wells and cisterns. #

Sabetha, Nemaha Co., population 1,700; fire area 12 acres; mercantile buildings, wood, brick and stone, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 20 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,500; expense for last year \$900; total membership 25, paid part time; bell alarm. Chief engineer, H. E. Corwin.

WATER SUPPLY—Source, wells and cisterns.

St. Marys, Pottawatomie Co., population 1,500; fire area 180 acres; mercantile buildings, stone and brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted in business section; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck.

WATER SUPPLY—Source, wells. Mayor, J. T. Buell.

Salina, Salina Co., population 6,649; fire area 600 acres; mercantile buildings, brick and stone, 2, 3 and 4 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,300 ft, inferior 800 ft; value of fire department equipment \$2,000; value of buildings occupied \$6,000; total ann expenses of department \$700; total membership 18, volunteers; Gamewell electric alarm; 16 street boxes; 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. Kastner.

WATER SUPPLY—Source, Wagner steamed wells; system, pumping direct; pumping engines, dy cap 2,000,000 gals; 66 hydrants; pipe about 10 miles, 2 to 12 in dia; 43 valves; service pipe galv iron; pressure, domestic 41, fire 85 to 125 pounds; works owned by company; original cost to construct \$100,000; expenses of construction to date estimated \$138,000; ann expenses, maintenance, repair, taxes etc., estimated at \$6,000; hydrantal rental \$6,200. Supt, John L. Bishop.

Nemeca, Nemaha Co., population 2,032; fire area 29 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage, other apparatus; hose, rubber good 200 ft, inferior 150 ft; total membership 31, all volunteers; bell alarm. Chief engineer, J. A. Gilchrist.

WATER SUPPLY—Source, wells and cisterns.

Solomon City, Dickinson Co., population 1,000; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of

fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber and cotton good 1,400 ft, inferior 150 ft; value of fire department equipment \$5,000; total ann expenses of department \$400; total membership 28, volunteers, paid part time 1; bell alarm. Chief engineer, W. T. Shania.

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 6,500 gals each; ann expenses \$300. Mayor, F. I. Carter.

Sterling, Rice Co., population 2,100; fire area 600 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, inferior 200 ft, rubber inferior 400 ft; total membership 30, volunteers; electric alarm; total expenses of department for past year \$200. Chief engineer, Wm. C. McVay.

WATER SUPPLY—Source, 4 driven wells; system, pumping direct; pumping engines, dy cap 1,000,000 gals; 42 hydrants; pipe 7 1/2 miles, 2, 4, 6 and 8 in dia; 13 valves; 200 taps; service pipe galv iron; pressure, domestic 30, fire 75 pounds; works owned by city; original cost to construct \$42,000; expenses of construction to date \$46,000; ann expenses \$2,200; int paid on bonds \$2,400. Chairman of water com, T. H. Brown.

Topeka, Shawnee Co., population 42,000; fire area 6 sq miles; mercantile buildings, stone and brick, in fire limits, 2 to 5 stories; private, brick and wood, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 2 hose wagons; hose, rubber good 3,100 ft, cotton 2,000 ft; 17 horses, value \$3,200; value of fire department equipment \$26,711; value of buildings occupied \$30,600; value of ground \$27,850; total ann expenses of department \$26,500; total membership 29, paid full time; telegraph alarm; 44 street boxes; 7 fire companies. Chief engineer, Geo. O. Wilmarth.

WATER SUPPLY—Source, drive and open wells; system, direct pumping; pumping engines, dy cap 10,000,000 gals; 320 hydrants; pipe 42 miles, 4 to 20 in dia; 273 gates; 95 meters; pressure 80 to 140 pounds; waterworks owned by company; cost to construct \$1,000,000; ann expenses in 1890 \$20,000. Pres of com, Joab Mulvane; manager, Jesse Shaw. #

Valley Falls, Jefferson Co., population 1,300; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, 1 hose wagon; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$400; total membership 25, volunteers. Chief engineer, H. M. Dort. #

WATER SUPPLY—Source, well and river; system, pumping to tank; reservoir cap 250,000 gals; 11 hydrants; pipe 3 miles, 4 to 6 in dia; 12 valves; 37 taps; pressure, fire 40 to 60 pounds; works owned by city; original cost to construct \$15,300; ann expenses \$150. Chairman of com, H. M. Dort. #

Wallace, Wallace Co., population 210; buildings, wood, 1 and 2 stories; shingle roofs. Fire department—1 steam fire engine, 5 chemical extinguishers, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$1,000; bell and whistle alarm. Chief engineer, Frank Wiszgard. #

WATER SUPPLY—Source not stated; system, pumping to reservoir, 2 reservoirs. #

Weir, Cherokee Co., population 4,500; fire area 500 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 1,500 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,000; 36 volunteer members; bell alarm; 2 hose companies. Chief engineer, J. W. Kirk.

WATER SUPPLY—Source, 3 artesian wells; system, pumping to reservoir, standpipe or direct; reservoir cap 750,000 gals; standpipe cap 50,000 gals; pumping engines, dy cap 750,000 gals; hydrants 27; pipe 5 miles, 2 to 8 in dia; 30 valves; pressure, domestic 40, fire 100 to 150 pounds.

works owned by company; original cost to construct \$25,000; expenses of construction to date \$35,000; ann expenses \$2,000. Supt. A. B. Cock-
erill.

Wellington, Sumner Co., population 5,500; fire area 980 acres; mercantile buildings, stone and brick, 2 and 3 stories; private, wood and brick, 1, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages, all kinds; hose, rubber good 1,000 ft, cotton good 1,000 ft; value of fire department equipment \$3,000; total ann expenses of department \$1,200; total membership 43, paid part time 42, volunteer members 1; bell alarm. Chief engineer, B. A. Ellsworth; chairman of fire and water com, P. H. Cleveland.

WATER SUPPLY—Source, Slate creek; system, pumping to reservoir, to standpipe and direct; reservoir cap 2,000,000 gals; standpipe cap 24 x 105 ft; pumping engines, dy cap 1,250,000 gals; hydrant's 72; pipe 11 miles, 4 to 16 in dia, service pipe, iron and lead; pressure, domestic 45 to 50, fire 80 pounds; works owned by company; original cost to construct \$110,000. Supt, J. M. Thralls.

Wetmore, Nemaha Co., population 650; fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 200 ft; value of fire department equipment \$1,500; total ann expenses of department \$100; total membership 30, volunteer; bell alarm. Chief engineer, Wm. Colwell.

WATER SUPPLY—Source, wells and cisterns.

Wichita, Sedgwick Co., population 30,000; fire area 22,000 acres; mercantile buildings, stone, brick and wood, 1 to 5 stories; private, brick and

wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, 2 hose wagons; hose, rubber good 4,000 ft, rubber inferior 1,000 ft, linen good 100 ft, linen inferior 100 ft; 16 horses, value \$4,000; value of fire department equipment \$30,000; value of buildings occupied \$35,000; total ann expenses of department \$20,000; total membership 25, paid full time; electric alarm; street boxes 24; 7 fire companies, 2 engine companies, 1 hook and ladder company, 4 hose companies. Chief engineer, A. G. Wolden.*

WATER SUPPLY—Source, drive wells; hydrants 217; pipe 304 miles; 33 meters; quality of water good; works owned by company. Supt, W. A. Bixby.*

Winfield, Cowley Co., population 7,500; fire area 20 acres; mercantile buildings, stone and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,300 ft, rubber good 200 ft, inferior 400 ft; value of fire department equipment \$1,800; value of buildings occupied \$8,000; total ann expenses of department \$800; total membership 45, all volunteer; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, William A. Kuhns.*

WATER SUPPLY—Source, Walnut river; system, pumping to reservoir; cap 2,000,000 gals; pumping engines, dy cap 3,000,000 gals; 80 hydrants; pipe about 10 miles, 4 to 12 in dia; 33 valves; pressure, domestic 60, fire 80 pounds; quality of water good; works owned by company; cost to construct \$143,000. Supt, W. H. Cramer.

Wyandotte, Wyandotte Co. (See Kansas City.)

KENTUCKY.

Alexander, Campbell Co., population 2,828; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose reel; hose, rubber good 200 ft and several ladders; membership 12, volunteers; bell alarm. Town clerk, M. Schmidt.

WATER SUPPLY—Source, 4 large cisterns.

Ashland, Boyd Co., population 4,195; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; bell alarm.*

WATER SUPPLY—Source, Ohio river and 12 wells; system, pumping to reservoir; reservoir cap 1,308,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 88; pipe 9½ miles, 4 to 16 in dia; 400 taps; pressure 90 pounds; works owned by company original cost to construct \$185,000; ann expenses \$5,600. Pres and genl mgr, S. A. Forbes.

Augusta, Bracken Co., population 1,447; fire area 640 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, 1,000 ft. Chief engineer, J. B. Wilson.*

WATER SUPPLY—Source, 20 cisterns with a cap of 150 barrels each. Town clerk, James A. Wallace.*

Bardstown, Nelson Co., population 2,415; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$5,000; value of buildings, 2 owned \$2,500; total ann expenses of department \$500; total membership 70, volunteers, paid 2; bell alarm. Chief engineer, Henry Wassell.*

WATER SUPPLY—Source, 17 cisterns. Town clerk, J. D. Wickliffe.

Belleuve, Campbell Co., population 3,163; fire area 2,000 acres; buildings, brick and wood, 2 and 3 stories; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hand pump; hose, cotton good 1,000 ft, rubber good 150 ft; value of fire depart-

ment equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$850; total membership 80, paid full time 2; bell alarm. Chief engineer, Henry F. Corleil.*

WATER SUPPLY—Source, river; system, gravity; 100 hydrants; pipe 25 miles, 4, 6, 8 and 10 in dia; 100 valves; pressure 80 pounds; cost to construct \$30,000; ann expenses \$4,000. Supt, G. R. Harma.*

Bowling Green, Warren Co., population 7,503; buildings, brick, 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 4 hose carriages; hose, rubber good 2,000 ft, inferior 1,000 ft; value of fire department equipment \$3,500; total ann expenses of department \$1,500; value of buildings, 1 owned \$2,000; total membership 31, paid part time; whistles and bell alarm. Chief, J. H. Wilkerson.*

WATER SUPPLY—Source, river; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 2,700,000 gals; 87 hydrants; pipe 18 miles, 16 to 4 in dia; 40 meters; pressure 70 to 80 pounds; cost to construct \$80,000; ann expenses \$400. Supt, Jas. H. Wilkerson.*

Campbellsville, Taylor Co., population 1,018; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance.*

WATER SUPPLY—Source, springs and wells.*

Carlisle, Nicholas Co., population 1,800; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; total membership 35, paid part time 6; bell alarm. Chief engineer, T. P. Trueman.

WATER SUPPLY—Source, 6 large cisterns and creek running through southwestern boundary of town. City clerk, I. W. Towling.*

Carrollton, Carroll Co., population 2,500; fire area 1 sq mile; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—2 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 500 ft; value of fire department equipment \$3,000; total ann expenses of department \$300; total membership 25, paid part time;

bell alarm. Chief engineer, Henry D. Eggert.
WATER SUPPLY—Source, river and private cisterns. Town clerk, R. J. Wilson.

Cattlettsburg, Boyd Co., population 3,042; fire area 1,200 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, inferior 500 ft, cotton good 500 ft; 2 horses, value \$500; value of fire department equipment \$6,500; value of buildings occupied \$4,000; total ann expenses of department \$1,000; 10 members, paid part time; bell alarm. Chief engineer, Jas. A. Kilgus.

WATER SUPPLY—Source, Big Sandy river; system, pumping to reservoir, cap 1,000,000 gals; pumping engines, dy cap 1,800,000 gals; 70 hydrants; pipe 4 miles, 12 to 4 in dia; 21 valves; pressure 130 pounds; works owned by company; cost to construct \$55,000; ann expenses \$2,500. Pres. W. A. Patton.

Central City, Muhlenberg Co., population 1,144; fire area 20 acres; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 600 ft; value of fire department equipment \$300; total membership 12, all volunteers; bell alarm. Chief engineer, R. P. Day.

WATER SUPPLY—Green river, located 3 miles from city; system, pumping to reservoir, cap 750,000 gals; pumping engines, dy cap 60,000 gals; 15 hydrants; pipe 8 miles, 8 and 2 in dia; 16 valves; pressure 60 pounds; works owned by company; cost to construct \$60,000; ann expenses \$2,000; int on bonds \$1,800. Supt. T. C. Dupont.

Clinton, Hickman Co., population 1,347; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs permitted.*

WATER SUPPLY—Source, cisterns and wells; waterworks agitated. Mayor, J. D. Taylor.*

Cloverport, Breckenridge Co., population about 2,000; mercantile buildings, wood and brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. No fire department.

WATER SUPPLY—No waterworks.

Columbus, Hickman Co., population 873; fire area 12 acres; mercantile buildings, brick and wood, 1 story; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance.

WATER SUPPLY—Source, river and cisterns.

Covington, Kenton Co., population 45,000; fire area 1,495 acres; mercantile buildings, brick, 3 and 4 stories; private, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 aerial truck, 3 hose carriages, all kinds, 2 hose wagons; hose, cotton good 3,200 ft, rubber 1,000 ft; 14 horses; value of fire department equipment \$30,000; value of buildings occupied \$25,000; total ann expenses of department \$28,000; total membership 29, paid; Gamewell electric alarm; 52 street boxes; 5 fire companies. Chief engineer, Joseph Meyers.

WATER SUPPLY—Source, Ohio river, 8 miles above city; system, pumping to 3 reservoirs; reservoir cap 85,000,000 gals; pumping engines, dy cap 10,000,000 gals; 287 hydrants; pipe 42 miles, 4 to 30 in dia; 458 valves; service pipe lead; pressure 110 pounds; works owned by city; original cost to construct \$1,145,000; expenses of construction to date \$1,300,000; ann expenses \$24,000. Supt. W. H. Glora.

Cynthiana, Harrison Co., population 3,016; mercantile buildings, brick, 2 and 3 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft, inferior 500 ft; value of fire department equipment \$6,500; value of building occupied \$4,000; total membership 33, paid full time 2; bell alarm. Chief, C. F. Corrigan.

WATER SUPPLY—Source, Licking river and 15 cisterns; cap of cisterns 380 barrels dy. Mayor, F. S. Ashbrook. (Are building waterworks.)

Danville, Boyle Co., population 4,500; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; fireworks ordinance; wooden roofs not permitted. Fire depart-

ment—1 hand engine, 3 chemical engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft, poor 400 ft, linen good 250 ft; value of fire department equipment \$3,000; value of buildings occupied \$500; ann expenses \$250; total membership 75, volunteers; bell alarm. Chief engineer, G. W. Welsh.
WATER SUPPLY—Source, wells and cisterns. Town clerk, F. M. Lee. (Town will vote to put in waterworks.)

Dayton, Campbell Co., population 4,264; mercantile buildings, brick and wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber 800 ft; bell alarm.*

WATER SUPPLY—Source, river; system, pump to reservoir; pumping engines; 100 hydrants; 10 miles pipe, 4 to 10 in dia; 50 valves; pressure, domestic 85 to 100, fire 100 to 115 pounds. Supt. G. R. Harmer.

Elizabethtown, Hardin Co., population 2,500; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft; value of buildings occupied \$500; value of fire department equipment \$700; bell alarm. Chief, S. H. Bush.

WATER SUPPLY—Source, wells, cistern and creek. (Will put in waterworks this year.)

Elkton, Todd Co., population 1,500; fire area 5 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Mayor, B. T. Perkins, Jr.

WATER SUPPLY—Source, private wells, 1 public well, cisterns and Elk river. (Waterworks now under consideration.)

Falmouth, Pendleton Co., population 1,148; buildings, wood and brick, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 supply wagon; hose, cotton good 500 ft, inferior 100 ft; value of fire department equipment \$1,200; total membership 25, volunteers; bell alarm. Chief engineer, J. Woodhead.*

WATER SUPPLY—Source, rivers and 13 cisterns. Town clerk, W. B. Woodhead.*

Flemingsburg, Fleming Co., population 1,800; fire area 320 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted in some sections; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, cotton good 800 ft, cotton inferior 50 ft, linen good 50 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 100, volunteer; bell alarm. Chief engineer, William H. Harrison.

WATER SUPPLY—Source, cisterns, wells and creek.

Frankfort, Franklin Co., population 10,000; fire area 490 acres; mercantile buildings, brick, 2, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages; hose, good 1,700 ft, inferior 150 ft; 2 horses, value \$400; value of fire department equipment \$7,000; value of buildings occupied \$10,000; total ann expenses of department \$3,200; total membership 9, paid full time 4, paid part time 5; Gamewell electric alarm; 19 street boxes. Chief engineer, John D. Griffin.

WATER SUPPLY—Source, river; system, pumping to reservoir; reservoir cap 8,000,000 gals; pumping engines, dy cap 4,000,000 gals; 110 hydrants; pipe 12 miles, 6 to 14 in dia; 100 valves; pressure 130 pounds; works owned by company; cost to construct \$200,000; ann expenses \$4,500. Supt. J. D. Griffin.

Franklin, Simpson Co., population about 3,000; fire area 1 mile sq; buildings, wood and brick, 2 stories; wooden roofs not permitted in business part; no fireworks ordinance. Fire department—1 hook and ladder truck; value of fire department equipment \$500; bell alarm. Chief engineer, J. H. Adat.

WATER SUPPLY—Source, wells. (Will build works this year.)

Fulton, Fulton Co., population 2,500; fire area 100 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; metal roofs used; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hand engine, 3 hose carriages, all kinds; hose, rubber good 1,000 ft, cotton good 500 ft; total membership 27, volunteers. Chief engineer, W. F. Nolen.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 35,000 gals; pumping engines, dy cap 200,000 gals; hydrants 43; pipe 5 miles, 4 to 8 in dia; 11 valves; iron and lead service pipe; pressure, domestic 60, fire 84 to 150 pounds; works owned by city; original cost to construct \$22,638; ann expenses \$1,500; cost to date \$25,000. Supt, John McMahon.

Georgetown, Scott Co., population not stated; fire area 500 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$8,000; value of 1 building owned \$2,000; total ann expenses of department \$2,000; total membership 52, full paid 13, part paid; bell alarm.*

WATER SUPPLY—Source, Royal spring; system, pumping direct into mains; pumping engines, dy cap 2,000,000 gals; 60 hydrants; pipe 7 miles, 4 to 8 in dia; 24 valves; quality of water good; pressure, domestic 70, fire 120 pounds; works owned by company; cost to construct \$52,000; ann expenses \$3,600. Pres, H. P. Montgomery.

Glasgow, Baron Co., population 2,051. Fire department not reported.

WATER SUPPLY—Source, large springs; system, pumping to reservoir, cap 120,000 gals; pumping engines, dy cap 60,000 gals; hydrants 8; pipe 6½ miles, 4 in dia; 6 valves; pressure 40 pounds; works owned by company; cost to construct \$15,000; ann expenses \$975. Pres and supt, T. P. Dickinson.

Greenville, Muhlenberg Co., population 968; buildings, brick and wood, 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck.*

WATER SUPPLY—Source, wells.*

Harrodsburg, Mercer Co., population 3,800 fire area 900 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1½ and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,100 ft; value of fire department equipment \$4,875; total ann expenses of department \$2,000; total membership 31, paid full time 1, balance volunteers; whistle and bell alarm; 4 fire companies, 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, Chas. E. Clark.

WATER SUPPLY—Source, Salt river; system, pumping to standpipe and direct; reservoir cap 400,000,000 gals; standpipe cap 288,000 gals; pumping engines, dy cap 2,400,000 gals; hydrants 82; pipe 7 miles, 4 to 10 in dia; 43 valves; taps 75; galv iron service pipe; pressure 75 pounds; works owned by company; original cost to construct \$75,000; ann expenses \$900. Supt, J. M. Roobe.

Hawesville, Hancock Co., population 1,200; buildings, brick and wood, 1 to 3 stories. Fire department—Buckets; bell alarm.

WATER SUPPLY—Source, wells, cisterns and river. Town clerk, James Wilson.

Henderson, Henderson Co., population 12,000; fire area 50 acres; mercantile buildings, brick, 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,200 ft, rubber inferior 500 ft, cotton good 1,200 ft; 3 hoses, value \$500; value of fire department equipment \$4,000; value of buildings occupied \$1,500; total membership 15, paid full time 1, paid part time 1, volunteer members 13; Gamewell alarm; street boxes 13. Chief engineer, Wm. Canning.*

WATER SUPPLY—Source, Ohio river; system, gravity, pumping to reservoir, standpipe and direct; reservoir cap 3,000,000 gals; standpipe cap 11,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 81; pipe 16 miles, 3 to 12 in dia; 96 valves; galv iron service pipe; pressure, domestic 40, fire 70 to 100 pounds; works owned by city;

original cost to construct \$125,000; ann expenses \$8,434. Supt, Jas. P. Wigal.

Hickman, Fulton Co., population 2,200; fire area 1 by 1.2 miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 4 hose carriages, all kinds; hose, cotton good 1,700 ft, inferior 50 ft; value of fire department equipment \$2,500; total membership 100, volunteers; steam whistle and bell alarm; 4 hose companies. Chief engineer, J. H. Miller.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 35,000 gals; pumping engines, dy cap 500,000 gals; hydrants 30; pipe, 5 miles, 4 to 8 in dia; valves 6; pressure, domestic 120, fire 120 pounds; waterworks owned by city; original cost to construct \$30,000; expenses of construction to date \$35,000; ann expenses \$3,000. Supt, E. E. Miller.

Hopkinsville, Christian Co., population 6,500; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 20 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, cotton good 1,500 ft, inferior 400 ft; 3 hoses, value \$900; value of fire department equipment \$7,500; value of buildings occupied \$4,000; total ann expenses of department \$1,750; total membership 13, paid full time 1, paid part time 12; bell alarm. Chief engineer, Jno. A. Turryman.

WATER SUPPLY—Source, 2 public wells, 17 public cisterns; total cap of same 571,050 gals.

Lancaster, Garrard Co., population 2,000; fire area 250 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft, inferior 800 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,500; total ann expenses of department \$200; total membership 50, volunteers; bell alarm. Chief engineer, Alex. Miller.

WATER SUPPLY—Source, wells and cisterns. Holly system of waterworks will be finished this year. Water com, J. C. Thompson.

Lawrenceburg, Anderson Co., population 1,500; fire area 4 miles sq; mercantile buildings; brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—buckets and ladders.

WATER SUPPLY—Source, cisterns and wells. Town clerk, Paul Montfort.

Lebanon, Marion Co., population 2,816; fire area 1.2 sq mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total ann expenses of department \$250; total membership 8, paid part time; bell alarm. Chief engineer, Wm. Hogan.*

WATER SUPPLY—Source, river; system, pump to reservoir direct; reservoir cap 1,000,000 gals; Gordon pumping engines, dy cap 1,000,000 gals; 43 hydrants; pipe 10 miles, 4 to 12 in dia; 44 valves; quality of water soft; pressure 125 pounds; cost to construct \$80,000; ann expenses \$2,800. Supt, J. M. Rania.

Lexington, Fayette Co., population 30,000; fire area 4 sq miles; mercantile buildings, brick and wood, 3 to 5 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, rubber good 750 ft, rubber inferior 800 ft, cotton good 1,450 ft; 5 hoses, value \$1,125; value of fire department equipment \$4,900; value of buildings occupied \$7,000; total ann expenses of department \$10,000; total membership 12, paid full time; Gaynor electric alarm; street boxes 47. Chief engineer, G. W. Muir.

WATER SUPPLY—Source, drainage area, 3 miles distant; system, pumping direct; reservoir cap 350,000,000 gals; pumping engines, dy cap 3,000,000 gals;

hydrants 258; pipe 18 miles, 4 to 16 in dia; 108 valves; lead service pipe; pressure, domestic 40, fire 120 pounds; works owned by company; original cost to construct \$250,000; ann expenses \$10,000; int paid on bonds \$15,980. Supt. S. A. Charles.

Louisa, Lawrence Co., population 1,000; fire area 10 acres; buildings, brick and wood, 2 stories. Fire department—1 hand engine; hose, rubber good 100 ft. Chief engineer, R. C. McClure.

WATER SUPPLY—Source, wells and cisterns.

Louisville, Jefferson Co., population 161,129; fire area 134 sq miles; mercantile buildings, iron, stone and brick, 3 to 8 stories; private, brick and wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—14 steam fire engines, 10 chemical extinguishers, 5 hook and ladder trucks, 1 aerial truck, 14 hose carriages, all kinds; hose, cotton good 2,000 ft, inferior 500 ft, rubber good 21,600; 70 hoses, value \$14,000; value of fire department equipment \$175,000; value of buildings occupied \$260,000; total ann expenses of department \$249,980 total membership 144, paid full time; Gamewell alarm; 240 street boxes. Chief engineer, Edward Hughes.

WATER SUPPLY—Source, Ohio river; system, pump to reservoir, standpipe and direct; reservoir cap 1 of 100,000,000 gals, another of 10,000,000 gals; pumping engines, dy cap 15,000,000 gals; 148 hydrants; pipe 155 miles; 2,640 valves; 792 meters; 523 fire cisterns; pressure 50 pounds; works owned by company; cost to construct \$4,500,000; ann expenses \$35,300; int on bonds \$70,000. Supt, Chas. Hermans.

Ludlow, Kenton Co., population 2,469; buildings, brick and frame, 2 stories. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 400 ft, linen good 600 ft; value of fire department equipment \$2,000; total ann expenses of department about \$1,000; total membership 81, volunteer 1; telegraph and bell alarm; 18 street boxes. Chief engineer, C. M. Young.

WATER SUPPLY—Source, Ohio river, 12 miles distant; system, pumping to 3 reservoirs; reservoir cap 65,000,000 gals; pumping engines, dy cap 10,000,000 gals; hydrants 32; pipe 5 miles, 6 to 12 in dia; 105 valves; pressure, domestic 110, fire 110 pounds; works owned by city; original cost to construct \$25,000; expenses of construction to date \$25,000; ann expenses \$300. Supt. J. J. Weaver. (Water bought from Covington.)

Madisonville, Hopkins Co., population 3,012; fire area 4 miles sq; mercantile buildings, brick and metal, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 500 ft, rubber good 100 ft, inferior 100 ft; 1 horse; value of fire department equipment \$600; total membership 20, paid full time 1, volunteer members or callmen 19; bell alarm. Chief engineer, R. L. Harned.

WATER SUPPLY—Source, spring, lake 1 mile from town; system, pumping to standpipe.

Mayfield, Graves Co., population 3,038; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—2 hose carriages; hose, cotton good 1,000 ft; total membership 20, volunteers; bell and whistle alarm. Chief engineer, John Stark.

WATER SUPPLY—Not reported.

Maysville, Mason Co., population 7,384; mercantile buildings, brick, 3 to 5 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hand engines, 2 hook and ladder trucks, 6 hose carriages; hose, rubber good 5,000 ft; value of fire department equipment \$7,500; value of buildings occupied \$35,000; total ann expenses of department \$1,500; total membership 160; bell alarm. Chief, I. M. Lane.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir; reservoir cap 3,000,000 gals; pumping engines, dy cap 4,500,000 gals; hydrants 80; pipe 13 miles, 3 to 16 in dia; 80 valves; lead service pipe; pressure 150 pounds; works owned by company. Supt, August Schaeffer.

Middlesboro, Bell Co., population 4,000; fire area 8 x 4 blocks; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden

roofs not permitted, fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft, cotton good 1,000 ft, cotton inferior 200 ft; 3 horses, value \$700; value of fire department equipment \$8,000; value of buildings occupied \$7,000; total ann expenses of department \$4,000; total membership 1, paid full time; whistle alarm. Chief engineer, C. K. Tallaferro.

WATER SUPPLY—Source, Little Yellow creek; system, pumping to standpipe; cap 1,178,000 gals; storage reservoir cap 188,000,000 gals; pumping engines, dy cap 3,000,000 gals; 35 hydrants; pipe 8½ miles, 24 to 4 in dia; pressure 110 pounds; works owned by company; cost of construction to date \$897,000. Supt. A. H. Martine.

Mt. Sterling, Montgomery Co., population 4,000; fire area 1,000 acres; mercantile buildings, stone and brick, 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 800 ft, inferior 400 ft, rubber good 1,400 ft; value of fire department equipment \$7,000; value of buildings occupied \$6,000; total ann expenses of department \$350; total membership 25, paid full time 1, paid part time 25; bell alarm. Chief engineer, J. S. Conroy; sec, Henry Watson.

WATER SUPPLY—Source, springs, well and creek, 4 cisterns owned by city, cost \$450 each. (Contracts given for waterworks.)

Murray, Calloway Co., population 518; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine; bucket brigade; bell alarm. Marshal, W. T. Waller.

WATER SUPPLY—Source, wells and cisterns.

New Haven, Nelson Co., population 389; buildings, brick and wood, 1 and 2 stories; no fireworks ordinance; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hose cart and plenty of ladders; hose, 100 ft rubber good. Chief, John L. Jordin.

WATER SUPPLY—Source, 13 cisterns and 30 wells. Town clerk, Edwin C. Dawson.

Newport, Campbell Co., population 28,000; fire area 900 acres; mercantile buildings, brick and wood, 1 to 4 stories; private, wood and brick, 1 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriage, 3 hose wagon, 1 supply wagon; hose, cotton good 3,600 ft; 6 horses, value \$1,000; value of fire department equipment \$25,375; value of bldgs occupied \$18,000; total ann expenses of department \$10,000; members 10, paid full time: Gamewell alarm; 32 street boxes. Chief engineer, Jno. Waters; chairman of fire and water com, Jacob Smith.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir; reservoir cap 60,000,000 gals; pumping engines, dy cap 5,000,000 gals; hydrants 191; pipe 30 miles, 4 to 20 in dia; 800 valves; lead service pipe; pressure 70 to 95 pounds; works owned by city; original cost to construct \$755,000; ann expenses \$20,000. Supt, B. K. Morton.

Nicholasville, Jessamine Co., population 2,157; buildings, wood and brick, 1 to 3 stories. Fire department—6 chemical engines, 1 hook and ladder truck. Chief engineer, B. M. Anderson.

WATER SUPPLY—Source, Jessamine creek 2 1/4 miles distant; system, pumping to standpipe; reservoir cap 12,000,000 gals; standpipe cap 150,700 gals; pumping engines, dy cap 750,000 gals; hydrants 50; pipe 5 1/4 miles, 4 to 10 in dia; 3½ valves; 60 taps; service pipe, iron and lead; pressure 40 to 70 pounds; works owned by company; original cost to construct \$48,000; ann expenses \$1,400. Pres, Jno. A. Geary.

Owensboro, Daviess Co., population 12,000; fire area 1 and ¾ miles; mercantile buildings, brick, 1 to 5 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 2,000, rubber inferior 500 ft; 9 horses, value \$1,800; value of fire department equipment

\$10,500; value of buildings occupied \$13,100; total ann expenses of department \$15,100; total membership 12, paid full time; Gaynor electric alarm; street boxes 16. Chief engineer, Geo. W. Gentry.

WATER SUPPLY—Source, Ohio river; system, pumping direct into mains; pumping engines, dy cap 5,000,000 gals; 140 hydrants; pipe 17 miles, 4 to 20 in dia; 115 valves; pressure, domestic 60, fire 80 to 150 pounds; works owned by company. Pres of com, Samuel A. Miller; supt, H. P. Martin.

Paducah, McCracken Co., population 20,000; fire area 2,360 acres; mercantile buildings, brick, iron and stone, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, linen good 200 ft, rubber good 1,000 ft, inferior 800 ft; 4 hoses, value \$600; value of fire department equipment \$20,000; value of buildings occupied \$7,000; total ann expenses of department \$5,000; total membership 10, paid full time 5, paid part time 5; Gamewell alarm; 23 street boxes. Chief engineer, J. J. Wood.

WATER SUPPLY—Source, Ohio river; system, pumping to standpipe or direct; standpipe cap 500,000 gals; pumping engines, dy cap 4,000,000 gals; hydrants 185; pipe 17 miles, 8 to 16 in dia; service pipe galv iron; pressure 40 to 75 pounds; works owned by company. Supt, Muscoe Burnett.

Paris, Bourbon Co., population 8,000; fire area 8 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,450 ft, rubber inferior 350 ft; 2 hoses, value \$500; value of buildings occupied \$3,000; total ann expenses of department \$1,600; total membership 12, paid full time 2, paid part time 10; Gamewell alarm; street boxes 14. Chief engineer, F. Maun.

WATER SUPPLY—Source, Stoner creek; system, pumping to standpipe; standpipe cap 294,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 85; pipe 8 miles, 4 to 12 in dia; service pipe galv iron; pressure 60 pounds; works owned by company. Supt, E. L. King.

Pineville, Bell Co., population 1,200; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 1 1/2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 900 ft; value of fire department equipment \$50; 25 volunteer members; whistle alarm.

WATER SUPPLY—Source, mountain springs 8 1/2 miles distant; system, gravity and pumping in emergency; reservoir cap 280,000 gals; hydrants 13; pipe 6 miles, 4 to 8 in dia; 14 valves; lead and iron service pipe; pressure, domestic 80 to 100, fire 90 to 110 pounds; works owned by company; original cost to construct \$28,000; expenses of construction to date \$32,000. Pres, F. A. Hull of Danbury Conn; supt, Geo. L. Flower.

Pleasant Hill, Mercer Co., population 203; mercantile buildings, brick, stone and wood, 2 stories; private, same; shingle roofs used; no fireworks ordinance; no fire department.

WATER SUPPLY—Source, springs—4 mile distant; system, pumping to reservoir; reservoir cap 4,483 gals; pumping engines; hydrants 12; pipe 1 1/2 miles, 5, 8 and 3 in dia; 4 valves; original cost to construct \$1,000; ann expenses \$150. S. L. Bousseau.

Princeton, Caldwell Co., population 3,000; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. No fire department.*

WATER SUPPLY—Source, springs, wells and cisterns. Chairman board of trustees, A. Wallace.*

Richmond, Madison Co., population 4,000 fire area 1-4 miles sq; mercantile buildings, brick 2 and 3 stories; private, brick and wood, 1 1/2 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,500 ft; 1 horse, value \$300; value of fire department equipment \$500; value of buildings occupied \$3,000; total ann expenses of department \$1,200; total membership 16, paid full time 1, paid part time 15; bell alarm. Chief engineer, Joe Mitchell.

WATER SUPPLY—Source, impounding reservoir fed by springs and creek; system, pumping to tower and direct; reservoir cap 70,000,000 gals; standpipe cap 136,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 71; pipe 115 miles, 4 to 12 in dia; 54 valves; service pipe galv iron; pressure, domestic 65, fire 75 to 100 pounds; works owned by company; original cost to construct \$123,084; cost of construction to date \$136,000; ann expenses \$3,097. C. S. Powell, secy.

Russellville, Logan Co., population 2,253; fire area 64 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, inferior 900 ft; value of fire department equipment \$1,700; value of buildings occupied \$800; total membership 40, volunteers; bell alarm. Chief engineer, J. M. Dale.

WATER SUPPLY—Source, 2 cisterns and 3 wells. Mayor, B. B. Andrus. (Town hope to put in works this year.)

Shelbyville, Shelby Co., population 3,500; fire area 300 acres; mercantile buildings, brick and wood; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hose carriage, 1 hose wagon; 1,500 ft good rubber hose, 500 ft poor; value of fire department equipment \$3,000; value of buildings occupied \$1,800; total ann expenses of department \$1,500; total membership 16, paid full time; bell alarm. Chief engineer, J. W. Bodkin.

WATER SUPPLY—Source, cisterns supplied from creek; quality of water good. Town clerk, S. Reed.*

Somersett, Pulaski Co., population 2,623; fire area 300 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages, 1 hose wagon; hose, rubber good 1,050 ft, cotton good 50 ft; value of equipment \$1,600; membership 30, volunteers; bell alarm. Chief, L. D. S. Patton.*

WATER SUPPLY—Source, Pittman Creek, located 3 miles from town; system, pumping to reservoir, cap 1,000,000 gals; pumping engines, dy cap 650,000 gals; 55 hydrants; pipe 6 miles, 4, 6, 8 and 10 in dia; 85 valves; pressure 120 pounds; works owned by company; cost to construct \$60,000; ann expenses \$1,500; lat on bonds 6 per cent. Supt, W. C. Miles.*

Stanford, Lincoln Co., population 1,800; fire area 1 sq mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—12 chemical extinguishers, 2 hose carriages, all kinds; hose, cotton good 800 ft; value of fire department equipment \$1,000; value of buildings occupied \$450; total membership 37, volunteers; bell alarm. Chief engineer, Q. M. Bruce.

WATER SUPPLY—Source, gravel bed supply inexhaustible; system, direct pressure; pumping engines, dy cap 2,000,000 gals; 44 hydrants; pipe 4 miles, 8 to 4 in dia; 12 valves; pressure, domestic 60, fire 85 to 100 pounds; waterworks owned by company; original cost to construct \$38,000; ann expenses \$5,500. Supt, J. W. Hayden.

Versailles, Woodford Co., population not given; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 1,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$1,500; total ann expenses of department \$2,500; total membership 25, paid full time 2, volunteers 23; bell alarm. Chief engineer, J. H. McKenzie.

WATER SUPPLY—Source, large spring; system, gravity; reservoir cap 2,000 bbls; pressure 100 to 175 pounds; works owned by city; original cost to construct \$2,500. Mayor, Jno. H. McKensia.

Williamstown, Grant Co., population 800; mercantile buildings, iron, brick and wood, 1, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 3 chemical extinguishers, 1 hose carriage; hose, cotton good 500 ft, rubber good 70 ft; value of equipment \$700; membership 30, volunteers; bell alarm. Captain, W. F. Strenker.

WATER SUPPLY—Source, wells.*

Winchester, Clark Co., population 4,519; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 3,000 ft, rubber good 1,000 ft; 1 horse, value \$250; value of fire department equipment \$9,000; value of buildings occupied \$4,500;

total ann expenses of department \$900; total membership 51, paid part time; Gaynor alarm; 4 street boxes. Chief engineer, W. A. Atterhall.

WATER SUPPLY—Source, creek and springs; system, pumping to standpipe; cap 275,000 gals; pumping engines, dy cap 1,000,000 gals; 72 hydrants; pipe 10 miles, 8 to 12 in dia; 37 valves; pressure 60 pounds; works owned by company. Supt, E. L. Kings.

LOUISIANA.

Alexandria, Rapides Parish, population about 5,000; fire area 600 acres; mercantile buildings, brick and wood, 2 stories; private, principally wood, usually 1 story; wooden roofs not permitted. Fire department—1 steam fire engine, 1 hand engine, 12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1,000 ft rubber hose, 500 ft of cotton hose and 500 ft linen; value of fire department equipment \$8,000; ann expenses of equipment \$1,000; total membership 40, volunteers; bell alarm. Chief engineer, J. P. Turregame.

WATER SUPPLY—Source, artesian wells; pipe 7½ miles, 4 to 12 in dia. Supt, A. Sturea.

Algiers, Orleans Co., (4th District of New Orleans) population 10,000; fire area 5 by ½ miles; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,500 ft cotton good 700 ft; 12 horses, value \$3,000; value of fire department equipment \$15,000; total ann expenses of department \$23,000; total membership 28, paid full time; Gamewell alarm; street boxes 13; 4 fire companies, 3 engine companies, 1 hook and ladder company. Chief engineer, Thomas O'Connor.

WATER SUPPLY—Source, rivers and wells.

Amite City, Tangipahoa Co., population 1,800; fire area 1 by 2 miles; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 400 ft, inferior 150 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,550; total membership 50, volunteers; bell alarm. Foreman, F. H. Drake.

WATER SUPPLY—Source, 5 underground tanks of cap 3,000 gals each; cost to construct \$875.

Bastrop, Morehouse Parish, population 1,000. No organized fire department.

WATER SUPPLY—Source, wells and cisterns. Town clerk, Leon Sugar.

Baton Rouge, East Baton Rouge Parish, population 10,478. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 1 aerial truck, 6 hose carriages, 2 steam tugs with pumps; hose, rubber good 3,500 ft, inferior 1,000 ft; total membership 306, paid full time 6, volunteer members 300. Chief engineer, Andrew Jackson.

WATER SUPPLY—Source, well; system, pumping to reservoir, standpipe and direct; reservoir cap 350,000 gals, standpipe cap 182,000 gals; pumping engines, dy cap 3,000,000 gals; 96 hydrants; pipe 8½ miles, 4 to 12 in dia; 35 valves; service pipelaid and galv iron; pressure, domestic 45, fire 100 pounds; original cost to construct \$125,000; ann expenses \$4,000; int on bonds, 6 per cent. Supt, Jno. H. Wood.

Carrollton, Jefferson Co. (7th district of New Orleans) fire area 4½ q miles; mercantile buildings, wood, 2 stories; private, wood, 1 story. Fire department—2 steam fire engines, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 4,000 ft; 10 horses, value \$2,000; value of fire department equipment \$12,000; value of buildings occupied \$9,000; total ann expenses of department \$14,000; total membership 24, paid full time; Gamewell electric alarm; 11 street boxes; 4 fire companies. Assistant chief, A. Arbo. (See New Orleans.)

WATER SUPPLY—Source, wells.

Donaldsonville, Ascension Parish, population 4,000; buildings, wood and brick, 1 and 2

stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 chemical engines on wheels, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,300 ft, inferior 500 ft; value of fire department equipment \$10,500; value of buildings occupied \$8,000; total membership 150, volunteers. Chief engineer, D. Ohlmeier.

WATER SUPPLY—Source, river; system, pumping to standpipe; cap of standpipe 32,000 gals; pumping engines, dy cap 1,700,000 gals; 35 hydrants; pipe about 3 miles, 8 to 4 in dia; pressure, domestic 38, fire 77 pounds; work owned by city; cost to construct \$18,000; ann expenses \$1,020. Supt, D. Gentel.

Franklin, St. Mary Parish, population 2,127; mercantile buildings, brick and wood, 2 stories; private, same; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck; hose, cotton good 1,000 ft; value of fire department equipment \$7,000; value of 2 buildings occupied \$1,000; total membership 80, volunteers; bell alarm.

WATER SUPPLY—Source, bayou.

Gretz, Jefferson Parish, population 3,322; fire area 30 acres; buildings, wood, 1 story; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 portable extinguishers; hose, rubber good 1,500 ft; value of fire department equipment \$8,000; value of 3 buildings occupied \$6,000; total ann expenses of department \$1,000; total membership 80, volunteers; bell alarm.

WATER SUPPLY—Source, wells and pipe. Town clerk, J. C. Bauman.

Houma, Terrebonne Parish, population 2,000; fire area 1 mile; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, linen good 1,400 ft, inferior 400 ft; 2 horses; value of fire department equipment \$8,000; value of buildings occupied \$8,500; total membership 100, volunteers; bell alarm. Chief engineer, E. W. Condon.

WATER SUPPLY—Source, wells. Clerk, H. C. Sidney.

Jeanerette, Iberia Parish, population 2500; fire area 500 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1500 ft; value of fire department equipment \$7000; value of buildings occupied \$9000; total ann expenses of department \$100; total membership 60, volunteers; bell alarm. Chief engineer, F. Beaulieu.

WATER SUPPLY—Source, wells and Bayou Teche, system, pumping direct to power tank, cap 24,000 gals; hydrants 24; pipe 4 miles, 4 to 6 in dia; pressure, domestic 30 lbs, fire 180 lbs; works owned by city; cost to construct \$10,000. Supt, Frank Beaulieu.

Jefferson City, (5th district of New Orleans); fire area 2,880 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 3 chemical engines on wheels, 2 chemical extinguishers, hook and ladder truck, 2 hose carriages, 1 hose wagon, 1 chemical engine with 30-foot extension ladder; hose, rubber good 1,500 ft, inferior 300 ft, linen good 300 ft; 19 horses, value \$4,000; value of fire department equipment \$14,000; value of buildings occupied \$32,000; total ann expenses of department \$37,500; total membership 42, paid full time; Gamewell telegraph alarm; 30 street

boxes; 6 engine companies, 1 hook and ladder company. Chief engineer, Thomas O'Neill.

WATER SUPPLY—Source, wells and cisterns; system, gravity; 12 hydrants; pipe $\frac{1}{2}$ mile, 4 to 8 in dia.

Lake Charles, Calcasieu Parish, population 5000; fire area 2½ acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 6 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, all kinds; hose, cotton good 500 ft; value of fire department equipment \$5000; value of buildings occupied \$5000; total membership 125, volunteer; bell alarm. Capt. W. A. Knapp.

WATER SUPPLY—Source, Calcasieu river; system, pumping to standpipe and direct; standpipe cap 175,000 gals; Smedley pumping engine, 4 cy cap 2,000,000 gals; hydrants 44, Ludlow; pipe 5 miles, 6x14 in dia, Howard Harrison; 15 valves, Ludlow; taps 32; galv iron service pipe; pressure, domestic 50, fire 50 to 200 pounds; works owned by company. Pres. J. A. Landier; supt. T. J. Bird.

Lake Providence, East Carroll Parish, population 800; fire area 300 ft sq; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft, inferior 300 ft; 2 horses, value \$250; value of fire department equipment \$4000; value of buildings occupied \$2500; total membership 30; volunteer members or call men 30; bell alarm; total no of fire companies 2. Chief engineer, N. Fousse; chairman of fire and water com, J. W. Pittman.

WATER SUPPLY—Source, wells.

Mansfield, De Soto Parish, population 908; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, buckets; membership 24, volunteers.

WATER SUPPLY—Source, wells; waterworks contemplated.

Minden, Webster Parish, population 1500; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted.

WATER SUPPLY—Source, wells. Town clerk, Walton Fort.

Monroe, Ouachita Parish, population 5000; fire area 1½ sq miles; mercantile buildings, brick, 1 story; private, wood, 1 story; wooden roofs permitted on residences; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 2 hose carriages; hose, rubber good 1000 ft; 2 horses, value \$300; value of fire department equipment \$6000; total membership 30, paid full time 20, paid part time 10; bell alarm. Chief engineer, A. Renaud.

WATER SUPPLY—Source, 12 cisterns; waterworks proposed. City clerk, M. L. Meredith.

Morgan City, St. Mary Parish, population 2,900; fire area 400 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 4 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$7,000; value of buildings occupied \$2,500; total membership 100, volunteers; bell alarm. Chief engineer, H. M. Maye.

WATER SUPPLY—Source, river, wells and cisterns. Town clerk, W. B. Gray.

Natchitoches, Natchitoches Parish, population 3,000; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 600 ft, rubber inferior 200 ft; value of fire department equipment \$11,000; value of buildings occupied \$3,000; total ann expenses of department \$150; total membership 120, volunteers; bell alarm. Chief engineer, J. H. Coagrove.

WATER SUPPLY—Source, cisterns and river. Mayor, R. S. Calves; town clerk, C. F. Greneaux.

New Iberia, Iberia Parish, population 6,000; fire area 11-2x1 1-4 miles; mercantile buildings, brick, 1 story; private, wood, 1 story; wooden roofs

not permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 2 hook and ladder trucks, 5 hose carriages, all kinds; hose, rubber good 500 ft, cotton good 2,500 ft; 2 horses, value \$500; value of fire department equipment \$8,500; value of buildings occupied \$2,500; total membership 160, volunteers. Chief engineer, E. A. Pharr.

WATER SUPPLY—Source, cisterns and bayou. Mayor, J. Kook; town clerk, L. B. Delahousey.

New Orleans, Orleans Co., population 242,039; fire area 245,000 acres; mercantile buildings, brick and wood, 3 to 8 stories; private, wood, 2 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—46 steam fire engines, 1 hand engine, 1 combination fire extinguisher and hose wagon, 9 chemical engines on wheels, 10 chemical extinguishers, 7 hook and ladder trucks, 1 aerial truck, 24 hose carriages, all kinds; hose, cotton good 2,000 ft, rubber good 24,500 ft, inferior 5,000 ft; 126 horses; value of fire department equipment \$230,000; value of buildings occupied \$225,000; total ann expenses of department \$247,000; total membership 250, paid full time; Gamewell alarm; street boxes 165. Chief engineer, Thomas O'Conner.

WATER SUPPLY—Source, Mississippi river; system, pumping to standpipe; reservoir cap 4,000,000 gals; standpipe cap 174½ ft; E. P. Allis pumping engines, 4 cy cap 45,000,000 gals; hydrants 1220, various; pipe 79 miles, 3 to 36 in dia; 583 valves; service pipe lead; pressure 60 to 70 pounds; works owned by company. Supt. L. H. Gardner.

Opelousas, St. Landry Co., population 1572. Fire department—1 steam engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, canvas good 500 ft, old 200 ft; steam couplings used; membership 100, volunteers; bell alarm.

WATER SUPPLY—Bayou. Town clerk, W. R. Cochran.

Plaquemine, Iberville Parish. Fire department—2 hand engines, 1 hook and ladder truck, 1 hose carriage, bucket company; hose, rubber good 200 ft; total membership 25, volunteers. Chief engineer, C. H. Dickinson.

WATER SUPPLY—Source, wells; system, pumping to elevated tank and direct; reservoir cap 25,000 gals; pumping engines, 4 cy cap 800,000 gals; 53 hydrants; pipe 51-4 miles, 6 to 2 in dia; pressure 30 to 160 pounds; works owned by company; cost to construct \$14,887.44; ann. expenses \$1,000. Supt. David Altimus.

St. Martinville, St. Martin Parish, population 1,814; fire area 300 acres; mercantile buildings, brick and wood, not over 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 Silsby steam fire engine, 2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,300 ft, leather inferior 150 ft, and quantity of cotton and rubber hose; value of fire department equipment \$8,000; value of buildings occupied \$400; total ann expenses of department \$500; total membership 100, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company. Chief engineer, A. V. Fleming; chairman of fire and water com, A. V. Fleming.

WATER SUPPLY—Source, wells and Bayou Teche. Town clerk, Wm. B. Eastin.

Shreveport, Caddo Parish, population 11,979; mercantile buildings, brick and wood, 2, 3 and 4 stories; private, wood, 4 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engine, 3 hook and ladder trucks, 5 hose carriages, all kinds; hose, rubber good 1,500 ft, cotton good 800 ft; 6 mules, value \$1,200; value of fire department equipment \$35,000; value of buildings occupied \$10,000; total ann expenses of department \$10,000; total membership 20, paid full time 8, paid part time 12; Gamewell electric alarm, street boxes 20. Chief engineer, Thos. Breenahan.

WATER SUPPLY—Source, bayou; system, pumping to reservoir and standpipe; reservoir cap 2,500 gals; standpipe cap 250,000 gals; pumping engines, 4 cy cap 4,000,000 gals; hydrants 118, pipe 12 miles, 6 to 16 in dia, 40 valves, service pipe galv iron, pressure, domestic 50, fire 75 pounds; works owned by company, original cost to construct \$250,000. Pres. Peter Youre.

Thibodeaux, La Fourche Parish, population 2,078; fire area 1 sq mile; mercantile buildings,

brick, 3 and 4 stories; slate roofs; private, wood, 1½ stories. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 8 chemical extinguishers, 4 hose carriages; hose, good 1,000 ft; inferior 500 ft; value of fire department equipment \$8,000; value of buildings occupied \$10,000; total membership 225, volunteers; bell alarm. Chief engineer, I. M. Bourg.

WATER SUPPLY—Source, wells and bayou; Knowles pump. Town clerk, H. N. Conlon.

Washington, St. Landry Parish, population 1,064; fire area 78 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stor-

ries; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 100 ft; membership all volunteers; bell alarm.

WATER SUPPLY—Source, wells and cisterns. Town clerk, S. Derbes.

Places having a population of 1,000 and upward that have no fire protection: Homer City, Clairborne Parish, population 1,132; Jackson, East Feliciana Parish, population 1,276; Manderville, St. Tamary Parish, population 1,012; McDonoughville, Jefferson Parish, population 2,235; Pattersonville, St. Mary Parish, population 1,414.

MAINE.

Anson, Somerset Co., population 1,444; fire area 100 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 800 ft, inferior 200 ft; whistle alarm.

WATER SUPPLY—Source, shank factory located in center of village; system, pumping direct; pumping engines, dy cap 800 gals per minute; hydrants 5; pipe ¾ of a mile, 3 in dia; 6 valves; quality of water good; pressure, domestic 60, fire 100 pounds; works owned by village; cost to construct \$1,602. Supt. R. Fairbrother.

Auburn, Androscoggin Co., population 12,000; fire area 1,280 acres; mercantile buildings, brick and wood, 4 stories; private, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 6,000 ft; 9 horses, value \$2,000; value of fire department equipment \$8,000; value of buildings occupied \$12,000; total expenses of department for past year \$3,000; total membership 43, paid part time; telegraph alarm; 16 street boxes. Chief engineer, Lewis H. Haskell.

WATER SUPPLY—Source, Lake Auburn; system, pumping to reservoir and gravity; reservoir cap 650,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 67 hydrants; pipe 25 miles, 2 to 12 in dia; taps 1,200; service pipe galv iron; pressure, domestic 55, fire 100 pounds; works owned by company; expenses of construction to date \$300,000; ann expenses \$7,000. Chairman of com. F. M. Jordan; supt, Michael Lawler.

Augusta, Kennebec Co., population 12,000; fire area 1,250 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 hose carriages, all kinds, 2 hose wagons; hose, cotton good 5,000 ft, cotton inferior 2,000 ft; 3 horses, value \$600; value of fire department equipment \$8,000; value of buildings occupied \$5,000; total ann expenses of department \$3,600; total membership 70, volunteers; Gamewell alarm; 18 street boxes. Chief engineer, C. W. Bicker.

WATER SUPPLY—Source, Kennebec river; system, pumping to reservoir, cap 6,000,000 gals; pumping engines, dy cap 5,000,000 gals; 104 hydrants; pipe 24 miles, 2 to 12 in dia; 142 valves; pressure, domestic 75 to 100, fire 100 to 125 pounds; waterworks owned by company. Supt. W. H. Williams.

Bangor, Penobscot Co., population 20,000; mercantile buildings, stone and brick, 3 to 5 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 8 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, all kinds, 3 hose wagons, 4 hose sleds; hose, cotton good 8,000 ft, cotton inferior 4,500 ft; 9 horses, value \$2,000; value of fire department equipment \$18,000; value of buildings occupied \$27,000; total ann expenses of department \$20,000; total membership 87, paid full time 4, paid part time 82, volunteer members 77; Gamewell alarm; street boxes 33. Chief engineer, A. H. Parker.

WATER SUPPLY—Source, Penobscot river; system, pumping direct; pumping engines, dy cap 8,000,000 gals; hydrants 82; pipe 40 miles, 4 to 20 in dia; 151 valves; service pipe galv iron; pressure, domestic 110, fire 120 pounds; works owned by city; original cost to construct \$500,000. Supt. M. A. Sinclair.

Bar Harbor, Hancock Co., population 2,700; buildings, brick and wood, 1 to 3 stories; wooden roofs permitted. No organized fire department.

WATER SUPPLY—Source, Eagle lake; system, gravity; lake 2 miles long, ¼ miles wide, intake pipe extends 200 ft into lake; pipe 10 miles; hydrants 30; pressure, domestic 60 lbs, fire 75 pounds, works owned by Co; cost to construct \$175,000; ann expenses \$4,000. Supt. Wm. Rogers.

Bath, Sagadahoc Co., population 8,723; fire area 3,200 acres; mercantile buildings, wood and brick, 3 to 5 stories; private, wood and brick, 2 and 3 stories; slate roofs; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine, 1 hook and ladder truck, 1 in reserve, 3 hose carriages, 2 hose wagons; hose, cotton 6,000 ft; 5 horses; total membership 63, paid full time 2, part time 61; Gamewell alarm; 14 street boxes. Chief engineer, John R. Knowlton.

WATER SUPPLY—Source, Thompson's brook, located at Brunswick; system, pumping to standpipe; standpipe cap 550,000 gals; 2 pumps, dy cap 2,000,000 gals; hydrants 121; pipe 24 5-8 miles, 12 to 2 in dia; 43 valves; pressure, domestic 72 to 105 pounds, fire same; works owned by company; cost to construct \$275,000. Supt. A. S. Hall. (Extensive improvements to be made this year estimated cost \$185,000.)

Belfast, Waldo Co., population 5,294; fire area 320 acres; mercantile buildings, brick, 2 to 4 stories; private, wood, 1 and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 5 hose carriages; hose, rubber lined good 1,850 ft, cotton good 1,300 ft, rubber good 600 ft, leather good 500 ft; value of fire department equipment \$4,000; value of building occupied \$20,000; total ann expenses of department \$2,800; 40 members; bell and whistle alarm. Chief engineer, F. H. Welch.

WATER SUPPLY—Source, river, springs and water-shed; system, pumping to standpipe; cap of standpipe 200,000 gals; pumps, dy cap 2,000,000 gals; 53 hydrants; pipe 9 miles, 10 to 4 in dia; valves 85; pressure 80 to 100 pounds; quality of water good; works owned by private company; cost to construct \$100,000. Supt. D. M. Bird.

Bethel, Oxford Co., population 1,000; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,600 ft; value of fire department equipment \$3,800; total membership 35, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, G. E. Wiley.

WATER SUPPLY—Source, mountain stream, 4 miles distant; system, gravity; reservoir cap 100,000 gals; hydrants 25; pipe 8 miles, 8 and 6 in dia; 12 valves; pressure, domestic 80 to 120 pounds, fire 100 to 130 lbs; works owned by company; cost to construct \$42,000; ann expenses \$150. Supt. G. A. Hastings.

Bridgford, York Co., population 14,443; fire area 10 miles; mercantile buildings, brick, 5 stories; private, wood, 2 stories; shingle and slate roofs; no fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 3 hose carriages, 1 pump; hose, cotton good 6,000 ft; 4 horses, value \$1,600; value of fire department equipment \$11,500; value of buildings occupied \$5,000; total ann expenses of department \$7,500; total membership 44, paid full time 2, paid part time 43; Gamewell alarm; 20 street boxes; total no

of fire companies 3. Chief engineer, John Leonard.*

WATER SUPPLY—Source, Saco river; system, pumping to reservoir; reservoir cap 10,000,000 gals; pumping engines, dy cap 7,500,000 gals; hydrants 64; pipe 31 miles, 2 to 20 in dia; 293 valves; service pipe galv iron; pressure 25 to 85 pounds; works owned by company. Supt, James Burnie.

Beech Bay, Lincoln Co., population 1,718; fire area 20 acres; buildings, wood, 2 stories. Fire department—1 hand engine, 1 hose carriage, ladder; hose, cotton good 450 ft, rubber good 200 ft, inferior 200 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 60; bell alarm. Chief engineer, A. H. Kenniston.*

WATER SUPPLY—Source, pond and springs; system, pumping to standpipe; cap of standpipe 250,000 gals; pumping engines, dy cap 1,000,000 gals; pipe 43 miles; hydrants; waterworks owned by company; cost to construct \$69,000. Supt, K. H. Richards.*

Bowdoinham, Sagadahoc Co., population 1,508. Fire department—1 hand engine, with a hand tub.

WATER SUPPLY—Source, wells, reservoirs. Town clerk, L. D. Small.

Brewer, Penobscot Co., population 4,193; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hook and ladder trucks, 5 hose carriages, all kinds; hose, cotton good 4,000 ft; value of fire department equipment \$8,000; value of buildings occupied \$3,500; total ann expenses of department \$2,000; total membership 65, volunteers; bell alarm; 4 fire companies, 2 hook and ladder companies, 4 hose companies. Chief engineer, C. A. Harlan.

WATER SUPPLY—Source, Penobscot river; system, pumping direct; pumping engines, dy cap 2,000,000 gals; 45 hydrants; pipe 14 miles, 2 to 12 in dia; 75 valves; service pipe galv iron; pressure, domestic 100, fire 135 pounds; works owned by company. Supt, H. T. Sparks.

Bridgton, Cumberland Co., population 1,600; fire area 500 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ to 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 2,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$700; total ann expenses of department \$660; total membership 53, paid part time 53; bell alarm. Chief engineer, S. M. Lord.

WATER SUPPLY—Source, creek, 6 reservoirs. Town clerk, D. M. Crockett.*

Brownville, Piscataquis Co., population 1,075; mercantile buildings, wood, 1½ and 2 stories; private, wood, 2 stories; wooden roofs permitted, slate chiefly used; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, leather good 350 ft; bell alarm.

WATER SUPPLY—Source, wells, cisterns and river.

Brunswick, Cumberland Co., population 6,012 fire area 1,280 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories. Fire department—2 hand engines, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, 3 hose sleighs, 1 extension ladder, 1 hook and ladder sled; hose, cotton good 3,500 ft, inferior 500 ft, rubber inferior 150 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total membership 103, paid for actual service; bell alarm. Chief engineer, W. O. Peterson.

WATER SUPPLY—Source, springs; system, pumping to standpipe; impounding reservoir, cap 7,000,000 gals; standpipe cap 750,000 gals dy; 2 pumping engines, dy cap 1,500,000 gals; 70 hydrants; pipe 12 miles, 6 to 12 in dia; 152 valves; pressure 65 pounds; cost to construct \$100,000. Supt, A. S. Hall.

Bryants Pond, Oxford Co., population 325; buildings, brick and wood, 1 and 2½ stories; wooden roofs permitted. Fire department—1 hand engine, useless.

WATER SUPPLY—Source, wells and brooks. Town clerk, Alden Chase.

Bucksport, Hancock Co., population 3,000;

fire area 200 acres; mercantile buildings, wood, 1, 2, 3 and 4 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hand engines, 1 chemical extinguisher, 3 hose carriages, all kinds; hoses, rubber good 300 ft, cotton good 800 ft, leather good 400 ft; value of buildings occupied \$2,100; total ann expenses of department \$800; total membership 100, paid part time; steam whistle and bell alarm. Chief engineer, A. H. Genn.

WATER SUPPLY—Source, Silver lake; system, gravity; 10 hydrants; pipe 3½ miles, 2 to 10 in dia; 13 valves; service pipe galv iron; pressure 40 pounds; works owned by company; original cost to construct \$20,000; ann expenses \$300. Supt, E. L. Beagley.

Burton, York Co., population 250; fire area 12 acres; mercantile buildings, wood, 2 stories; private, wood, 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—bucket brigade.

WATER SUPPLY—Not reported.

Calais, Washington Co., population 7,290; fire area 300 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted, fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 8 hose carriages, all kinds, 2 hose reels; hose, rubber good 500 ft, rubber inferior 500 ft, cotton good 2,500 ft, cotton inferior 500 ft; 4 horses, value \$1,000; value of fire department equipment \$12,000; value of buildings occupied \$9,500; total ann expenses of department \$5,200; total membership 42, paid full time 2, paid part time 40; bell alarm. Chief engineer, W. E. McAllister.*

WATER SUPPLY—Source, St. Croix river; system, pumping to reservoir; reservoir cap 2,500,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 65; pipe 18 miles, 6 to 12 in dia; 60 valves; service pipe, galv iron; pressure 90 pounds; works owned by company. Supt, K. M. Stacy.

Camden, Knox Co., population 2,600; fire area 300 acres; mercantile buildings, brick, 3 and 4 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in certain limits; fireworks ordinance. Fire department—1 new steam fire engine, 1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 2 Bangor extension ladders, 4 hose carriages, all kinds; hose rubber good 1,800 ft, cotton good 1,400 ft, leather good 400 ft; value of fire department equipment \$7,500; value of buildings occupied \$2,500; total ann expenses of department \$800; total membership 63, paid for actual service; steam gong alarm. Chief engineer Spencer Mero.

WATER SUPPLY—Source, Mirror Spring Lake, 5 miles distant; system, gravity; 42 hydrants; pipe 10 miles, 6 to 10 in dia, valves; quality of water good; pressure, domestic 100 pounds, fire same; works owned by company. Supt, J. W. Crocker.

Caribou, Aroostook Co., population 4,037; fire area 640 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 Remington hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 300 ft; value of fire department equipment \$3,500; buildings occupied are rented by the town; total ann expenses of department \$2,300; total membership 28, all volunteers; bell and whistle alarm. Chief engineer, H. D. Collins.*

WATER SUPPLY—Source, Aroostook river, ½ mile from town; system, pumping to standpipe, cap 150,000 gals; pumping engines, dy cap 1,000,000 gals; 26 hydrants; pipe 4½ miles, 8 and 6 in dia; 22 valves; pressure, domestic 85, fire 150 pounds; works owned by company; cost to construct \$100,000, including dam; ann expenses \$6,500. Supt, A. B. Fisher.*

Carmel, Penobscot Co., population 1,066; buildings, wood, 1½ stories. Fire department—wooden buckets; bell alarm.

WATER SUPPLY—Source, wells. Town clerk, L. O. Whitten.

Cherryfield, Washington Co., population 1,787. Fire department—hooks and ladders, buckets, etc.; 1 force pump on wheels. Fire wardens, A. T. Allen, Jos. B. Sprowl, E. K. Wilson.

WATER SUPPLY—Source, river.

Clinton, Kennebec Co., population 1,518; mercantile buildings, wood, 1 1-2 and 2 stories; private, wood, 1 and 1 1-2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 200 ft; value of fire department equipment \$800; value of buildings occupied \$200; bell alarm.

WATER SUPPLY—Source, wells and cisterns. Selectman, M. Morrison.

Corinna, Penobscot Co., population 1,600; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—paila.

WATER SUPPLY—Source, wells.

Corinth, Penobscot Co., population 1,100; mercantile buildings, wood, 1 1-2 and 2 stories; private, same; wooden roofs are permitted; no fireworks ordinance. No fire department—apparatus, buckets.

WATER SUPPLY—Source, wells and cisterns.

Damariscotta, Lincoln Co., population 1,012; fire area 2 sq miles; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$700; total ann expenses of department \$1,000; total membership 100, paid part time 30, remainder volunteers; bell alarm. Chief engineer, Norman C. Hall.

WATER SUPPLY—Source, river and wells; 1 cistern. Village clerk, George O. Keene.*

Deering, (includes Woodford's) Cumberland Co., population 3,358; fire area 5 sq miles; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 6 hose carriages, all kinds, 2 hose wagons; hose, rubber good 6,000, inferior 400 ft, linen inferior 400 ft; value of fire department equipment \$4,350; value of buildings occupied \$1,500; total membership 104, paid part time 98; bell alarm. Chief engineer, L. G. Eldridge.

WATER SUPPLY—Source, Lake Sebago, 16 miles from city; system, gravity; reservoirs cap 30,000,000 gals; 64 hydrants; pipe 19 miles, 12 in dia; 1,865 taps; pressure, domestic 65, fire 65 pounds; waterworks owned by company. Supt, Geo. F. Westcott.

Dexter, Penobscot Co., population 2,732; fire area 800 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 2,400 ft, inferior 700 ft; value of fire department equipment \$4,800; value of buildings occupied \$2,200; total ann expenses of department \$887.50; membership 125, volunteers; bell alarm; 4 fire companies, 2 engine companies, 1 hook and ladder company, 1 hose company. Chief engineer, N. H. Fay.

WATER SUPPLY—Source, wells; reservoirs, force pumps; 4 in main runs through Main st; 4 hydrants connected with Rotary pump in mill; Dexter Mill Co. also has 4 in main supplied by 3 rotary pumps with hydrants.

Diamond Island, Cumberland Co., population 500; buildings, principally summer resorts and protected by the fire-boats from Portland; material, wood, 1 and 2 stories.*

WATER SUPPLY—Source, springs; system, pump to standpipe, cap 175,000 gals; pipe 4 miles; cost about \$10,000; on bonds 7 per cent. Pres, Franklin M. Lawrence.*

Dover, Piscataquis Co., population 1,942; mercantile buildings, wood, 2 stories; private, same; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages, 2 hose reels; hose, cotton good 1,500 ft, inferior 300 ft; value of buildings occupied \$3,000; total ann expenses of department \$2,000; total membership 30; bell alarm. Chief engineer, J. A. Landers.

WATER SUPPLY—Source, Piscataquis river; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engine, dy cap 1,000,000 gals; 31 hydrants; pipe 8 miles, 6, 8, 10 in dia; 18 valves; 300 taps; service pipe galv and wrought iron; pressure, domestic 70, fire 80 pounds; works owned by company; original cost to construct \$75,000;

ann expenses \$3,000. City clerk, C. W. Brown.*

East Livermore, Androscoggin Co., population 1,506; mercantile buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages, private fire pump and hose; hose, cotton good 750 ft, poor 300 ft, linen good 500 ft; value of equipment \$2,000; expenses for past year \$525; membership 25, volunteers; bell alarm. Chief engineer, C. E. Putnam.

WATER SUPPLY—Source, river, reservoirs, wells and springs.

Eastport, Washington Co., population 5,000; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 1 1/2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 8 hose carriages, all kinds; hose, rubber good 800 ft, inferior 400 ft, cotton new 1,000 ft, linen good 500 ft, inferior 300 ft; total membership 50; bell alarm (expect to put in electric alarm). Chief engineer, Thos. F. Mabee.

WATER SUPPLY—Source, waterworks; 60 hydrants; pressure 80 pounds.

Ellsworth, Hancock Co., population 5,000; fire area 1 mile sq; mercantile buildings, brick, stone and wood, 3 stories; private, wood, 1 1/2 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 5 hose carriages, all kinds; hose, rubber good 1,600 ft, leather good 2,100; value of fire department equipment \$6,500; value of buildings occupied \$3,000; total ann expenses of department \$2,500; total membership 94, paid full time 54, volunteer members 40; bell alarm; 4 fire companies. Chief engineer, William J. Logan.

WATER SUPPLY—Source, branch pond; system, pumping to standpipe; standpipe cap 300,000 gals; pumping engine, dy cap 1,200,000 gals; 55 hydrants; pipe 8 miles, 1 to 18 in dia; 110 valves; 350 taps; service pipe galv iron 1/2 to 2 in dia; pressure 115 pounds; works owned by company. Supt, L. H. Cushman.

Fairfield, Somerset Co., population 3,510; fire area 1,500 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 hose carriages, all kinds; hose, cotton good 4,200 ft, inferior 500 ft; value of fire department equipment \$7,500; value of buildings occupied \$2,500; total ann expenses of department \$1,800; total membership 30, all volunteers; bell alarm; 1 fire company. Chief engineer, W. H. Totman.

WATER SUPPLY—Source, Messalonaki river; system, pump to reservoir, cap 3,000,000 gals; pumping engine, dy cap 2,000,000 gals; 82 hydrants; 10 meters; pressure 86 pounds; works owned by company. Pres of com, Weston Lewis; supt, Jno. F. Nash. (See Waterville.)

Farmington, Franklin Co., population 3,000; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 extension ladder, 1 hose sled, 1 supply wagon; hose, rubber good 2,000 ft, inferior 300 ft; value of buildings occupied \$2,000; value of equipment \$12,000; ann expenses \$500; total membership 20, volunteers; electric alarm; 6 street boxes. Chief engineer, Geo. McL. Pearson.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 250,000 gals; 40 hydrants; pipe 4 miles, 4 to 10 in dia; works owned by company; original cost to construct \$31,000; ann expenses \$800. Supt, Levi G. Brown.

Fort Fairfield, Aroostook Co., population 3,526; fire area 1 street, about 1 mile; mercantile buildings, wood, 2 stories; private, wood, 1 1/2 and 2 stories; wooden roofs permitted; only State fireworks ordinance. Fire department—1 Remington horse-power engine, 3 hose carriages, all kinds; 8 hose pipes, 1 shut-off nozzle; hose, cotton rubber lined good 1,800 ft; value of buildings occupied \$400; total membership 30, volunteers; 3 church bell alarms. Chief engineer, S. E. Jewett.

WATER SUPPLY—Source, Grass brook; system, gravity; 19 hydrants; pipe 8 miles, 10 in dia; pressure 65 pounds. Supt, E. L. Noughton.

Foxcroft, Piscataquis Co., population 1,726; mercantile buildings, brick and wood, 1 to 4 sto-

ries; private, wood, 1 to 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 4 hose carriages; hose, linen good 1,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,500; total ann-expenses of department \$1,500; total membership 30, volunteers; bell and whistle alarm; 2 hose companies. Chief engineer, J. Q. Landers; chairman of fire com, J. B. Pease.

WATER SUPPLY—Source, Piscataquis river; system, pumping to reservoir, cap 1,000,000 gals; pumping engines, dy cap \$50,000 gals; 30 hydrants; pipe 8 miles, 10, 8 and 2 in dia; 23 valves; pressure, domestic 30, fire 80 pounds; waterworks owned by company; cost to construct \$75,000; int on bonds 5 per cent. Supt, J. M. C. Crocker.

Freeport, Cumberland Co., population 2,800; fire area 200 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages, 1 extension ladder, 1 fire hook and chain; hose, linen good 1,300 ft; value of fire department equipment \$800; total membership 35; bell alarm. Chief engineer, W. G. Merrill.

WATER SUPPLY—Source, brook led by springs; system, pumping to standpipe, cap 225,000 gals; pumping engines, dy cap 1,000,000 gals; 19 hydrants; pipe 4 miles, 10, 8 and 6 in dia; 12 valves; pressure, domestic 55 to 60, fire 60 pounds; works owned by company. Supt, H. D. Marr.

Fryeburg, Oxford Co., population 1,418; buildings, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft, linen good 800 ft; bell alarm. Chief engineer, A. R. Jenness.

WATER SUPPLY—Source, mountain stream; system, gravity; 1 reservoir, cap 2,000,000 gals; 19 hydrants; pipe 7 miles, 8 to 10 in dia; 10 gates, pressure 60 pounds; works owned by company; cost to construct \$20,000; ann expenses \$100. Supt, A. R. Jenness.

Gardiner, Kennebec Co., population 5,491; fire area 1,280 acres, mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 9 hose carriages, 1 hose wagon; hose, cotton good 6,500 ft; value of fire department equipment \$16,400; value of 6 buildings occupied \$4,000; total membership 97, paid full time; bell alarm; 5 fire companies. Chief engineer, C. M. Drake.

WATER SUPPLY—Source, Cobbossee Contee river; system, pumping to reservoir and direct; reservoir cap 2,000,000 gals; pumping engine, dy cap 1,500,000 gals; 75 hydrants; pipe 15 miles, 2 to 12 in dia; pressure, domestic 40 to 95 pounds; waterworks owned by company. Supt, Gustavus Moore.

Gorham, Cumberland Co., population 2,750; buildings, wood, 2 stories; no fireworks ordinance. Fire department—1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton rubber lined 500 ft, leather good 100 ft; value of fire department equipment \$1,000; bell and whistle alarm. Capt, C. N. Hayes.

WATER SUPPLY—Source, wells and cisterns. Town clerk, John C. Summerside.

Gouldsboro, Hancock Co., population 1,709; buildings, wood, 1 and 2 stories. Fire department—pails and buckets.

WATER SUPPLY—Source, wells. Town clerk, A. B. Kingsley.

Gray, Cumberland Co., population 1,517. Fire department—hooks and ladders.*

WATER SUPPLY—Source, aqueduct and wells. Town clerk, F. L. Clark.*

Hallowell, Kennebec Co., population 3,181; fire area 1 square mile; mercantile buildings brick and stone, 3 and 4 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages; hose, linen good 2,800 ft; 2 hoses, value \$400; value of fire department equipment \$12,000; value of 3 buildings occupied \$4,000; total ann expenses of department \$2,500; total membership 67, paid full time 53, paid part time 14; bell alarm. Chief engineer, L. P. Henderson.

WATER SUPPLY—Source, springs; system, gravi-

ty; 3 reservoirs; 1 hydrant; pipe 4 miles, 1 to 4 in dia; 35 valves; quality of water best; pressure 30 to 100 pounds; works owned by company; cost to construct \$20,000. Supt, Orlando Currier.

Hampden, Penobscot Co., population 2,700; fire area 500 acres; mercantile buildings, wood, 2 stories; private, same; wooden roofs are permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels; hose, rubber inferior 100 ft; value of fire department equipment \$100; value of buildings occupied \$100. Chief engineer, F. G. Rogers.

Harrison, Cumberland Co., population about 200; mercantile buildings, wood, 2 stories; private, same; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand force pumps.

Hartland, Somerset Co., population 1,000; fire area 180 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 650 ft, cotton inferior 600 ft; value of fire department equipment \$1,800; value of buildings occupied \$400. Chief engineer, S. H. Wilkins.*

WATER SUPPLY—Source, river and cisterns; system, gravity; 7 hydrants. Town clerk, D. Thompson.

Houlton, Aroostook Co., population 4,300; fire area 1,000 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, rubber good 2,000 ft, cotton good 3,000 ft; value of fire department equipment \$8,000; value of buildings occupied \$4,000; total ann expenses of department \$4,500; total membership 40, paid full time; electric bell alarm; 1 street box. Chief engineer, S. C. Webber.

WATER SUPPLY—Source, springs; system, pumping to standpipe; standpipe cap 113,000 gals; 2 pumping engines, dy cap 1,000,000 gals; 42 hydrants; pipe 7 miles, 4 to 12 in dia; 61 valves; service pipe iron; pressure, domestic 50, fire 100 pounds; works owned by company; original cost to construct \$50,000. Supt, Walter Mansur.

Jay, Franklin Co., population 1,541; mercantile buildings, wood, 2 stories; private, same; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated.

WATER SUPPLY—Source, wells and rivers.

Jonesport, Washington Co., population 2,000; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs are permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—No waterworks.

Kennebunk, York Co., population 3,500; mercantile buildings, wood, 2½ stories; private, wood, 2½ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, linen good 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$700; total membership 75, paid part time; electric gong alarm; 9 street boxes; 2 fire companies. Chief engineer, Edward Parsons.

WATER SUPPLY—Source, river, brook; system, direct pumping; 3 pumping engines; 2 waterpower force pumps; 5 reservoirs cap 60 hds each; 10 hydrants; pipe 1½ miles, 6 and 8 in dia; waterworks built by town for fire protection only, cost \$4,000.

Kittery, York Co., population 2,864; mercantile buildings, wood, 2 stories; dwellings, wood, 1 and 2 stories; wooden roofs permitted. Fire department of Navy Yard which adjoins town—3 steam fire engines, 1 hook and ladder truck, 4 hose carriages, 1 supply wagon, 300 hand grenades; hose, cotton good 3,000 ft, inferior 1,000 ft; 4 hoses; whistle and bell alarm. Chief engineer, Nathan Macey.

WATER SUPPLY—Source, 5 reservoirs, cap 632,000 gals; a hydrant system supplied by 1,000,000 gal reservoir is being constructed. Town clerk, D. M. Shopleigh.*

Lewiston, Androscoggin Co., population 24,000; fire area 1,280 acres; mercantile buildings,

wood, 4 stories; private, wood, 2 1-2 to 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages; hose, cotton good 12,800 ft, inferior 700 ft; 13 horses, value \$4,600; value fire department equipment \$70,300; value of 2 buildings occupied \$40,000; total ann expense of department \$18,000; total membership 72, paid full time 5, paid part 67; Gamewell alarm; 35 street boxes. Chief engineer, M. J. Moriarty.

WATER SUPPLY—Source, river; system, pumping to reservoir; cap 12,000 gals; pumping engines, dy cap 3,000,000 gals; 156 hydrants; pipe 28 1/2 miles, 4 to 24 in dia; 70 meters, 204 valves; pressure 40 to 110 pounds; cost of works to construct \$550,000; ann expenses \$7,500; int on bonds \$24,840. Supt, J. L. Kenney.*

Lincoln, Penobscot Co., population 1,756; fire area 400 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 60, all volunteers. Chief engineer, C. W. Porter.

WATER SUPPLY—Source, spring, 2 small reservoirs, cap 945 gals each, 1 hand tub and 1 hydrant. Town clerk, E. H. Pinkham.

Lisbon, Androscoggin Co., population 3,120; fire area 200 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 1 1/2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine; hose, cotton good 200 ft, linen good 400 ft; value of buildings occupied \$300; volunteer members 40; 1 fire company. Foreman, L. C. Robinson. Mill has 2,000 ft hose also 1 hand engine.

WATER SUPPLY—Mill in town have 2 rotary and 1 steam power pump.

Lisbon Falls, Androscoggin Co., population 3,120; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 1,000 ft, rubber good 400 ft; mill has 5 hydrants and 2 force pumps; value of fire department equipment \$2,500; total membership 70, volunteers. Chief, David Dearnley.

WATER SUPPLY—Source, river; 7 tanks, cap 8,000 gals each. (Waterworks system contemplated.)

Litchfield, Kennebec Co., population 1,200; fire area 8 sq miles; mercantile buildings, wood, 1 1/2 stories; private, wood, 12 ft; wooden roofs are permitted; no fireworks ordinance; apparatus pails.

Livermore Falls, Androscoggin Co., population 1,151; mercantile buildings, wood, 2 stories; private, wood, 1 1/2 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, general supply chemical extinguishers, 2 hose carriages; hooks and ladders; hose, cotton and linen good 1,000 ft, also pumps and 1,000 ft hose in miles can be used if necessary; value of fire department equipment \$5,000; value of buildings occupied \$1,500; total ann expenses of department \$250; total membership 20, paid part time; bells and whistles alarm; 1 engine company. Chief engineer, J. H. Soule.*

WATER SUPPLY—Source, river and wells; 3 reservoirs. Village clerk, C. H. Gibbs.*

Lubec, Washington Co., population 2,100; fire area 150 acres; mercantile buildings, wood, 1 1/2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 22 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$700; value of buildings occupied \$250; total ann expenses of department \$500; total membership 170, volunteers; bell alarm; 2 fire companies. Chief engineer, F. W. Trecartin.

WATER SUPPLY—Source, springs, ocean and cisterns; 3 reservoirs with a total cap of 80,000 gals. Town clerk, John H. Trecartin.

Machias, Washington Co., population 2,035; fire area 600 acres; buildings, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, rubber good 1,200 ft, inferior 500 ft; value

of fire department equipment \$5,000; bell and whistle alarm. Chief engineer, Samuel Leungelow.

WATER SUPPLY—Source, springs, brooks and rivers; 8 reservoirs. Town clerk, W. W. Bradbury.

Madison, Somerset Co., population 1,399; fire area 150 acres; mercantile buildings, wood and brick, 3 stories; private, wood, 1 1/2 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 extension ladder; hose, cotton good 1,200 ft; value of fire department equipment \$1,200; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 33, paid part time; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, H. L. Harris.

WATER SUPPLY—Source, Kennebec river; system, pumping to reservoir; reservoir cap 570,000 gals; pumping engines, dy cap 750,000 gals; 26 hydrants; pipe 3 miles, 6 to 10 in dia; 18 valves; pressure, domestic 60 to 75, fire 80 to 90 pounds; waterworks owned by company. Supt, W. L. Benuck.

Mechanic Falls, Androscoggin Co., population 2,000; mercantile buildings, wood, 2 stories; private, same; wooden roofs permitted; no fireworks ordinance. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; total ann expenses of department \$150; total membership 40, all volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, Frank A. Merrill.

WATER SUPPLY—Source, river and wells; 3 hydrants; pipe 1,200 ft, 6 in dia. (Waterworks system contemplated.)

New Castle, Lincoln Co., population 1,392; fire area 300 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 1,200 ft, inferior 500 ft; value of fire department equipment \$1,600; value of buildings occupied \$600; total membership 45, paid part time 30, volunteer members 15; church bell alarm; 2 fire companies. Chief engineer, L. H. Siddinger.*

WATER SUPPLY—Source, river, wells and cisterns.

Newport, Penobscot Co., population 1,188; buildings, wood, 1 1/2 to 3 1/2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; 30 small hand pumps; hose, linen good 700 ft; value of fire department equipment \$1,450; total membership 47, volunteers; bell alarm. Chief engineer, J. T. Murch.

WATER SUPPLY—Source, river, well and cisterns. (Waterworks will probably be put in this year.)

Norway, Oxford Co., population 2,985; fire area 500 acres; mercantile buildings, wood and brick, 2 to 4 stories; private, 1 to 3 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 extension ladder, 3 hose carriages; hose, good 3,500 ft, inferior 500 ft; value of fire department equipment \$5,000; value of 4 buildings occupied \$1,000; total ann expenses of department \$2,000; total membership 78; bell alarm. Chief engineer, Wm. C. Cole.

WATER SUPPLY—Source, lake and river; system, gravity; cap of reservoir 500,000 gals; pumping engines, dy cap 1,000,000; 34 hydrants; pipe 7 miles, 10 to 4 in dia; pressure 80 to 100 pounds; works owned by company; cost to construct \$42,000; ann expenses \$1,200. Supt, W. W. Whitmarsh.

Oakland, Kennebec Co., population 2,500; mercantile buildings, wood, stone and brick, 3 stories; private, wood, 2 1/2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 3 chemical extinguishers, 3 hose carriages, all kinds; hose, cotton good 2,500 ft, inferior 500 ft; value of fire department equipment \$4,000; total ann expenses of department \$1,000; total membership 75, volunteers; 1 engine company. Chief engineer, C. W. Henry.

WATER SUPPLY—Source, river and streams;

system, pumping to 3 cisterns; pumping engines, dy cap 20,000 gals. Town clerk, H. C. Winslow.

Old Orchard, York Co., population 1,000; fire area 1,000 acres; mercantile buildings, wood, 1½ to 4 stories; private, wood, 1½ to 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hose carriage, 1 hose pump; hose, cotton good 2,500 ft, poor 500 ft, linen good 200 ft; 3 horses, value \$500; value of fire department equipment \$2,800; value of buildings occupied \$3,000; total ann expenses of department \$700; total membership 18, 2 paid part time, volunteer members 14; 4 electric gongs and steam whistle alarm. Chief engineer, Thos. B. Hough.

WATER SUPPLY—Source, springs; system, gravity and pumping direct; reservoir cap 400,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 25; pipe 7 miles, 4 to 10 in dia; 25 valves; 225 taps; service pipe galv iron; pressure, domestic 40, fire 150 pounds; works owned by company; original cost to construct \$84,000; expenses of construction to date \$91,000; ann expenses \$1,500. Supt, J. W. Duff.

Oldtown, Penobscot Co., population 6,000; mercantile buildings, wood and brick, 1½-2 and 3 stories; private, wood 2 stories, wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 3 chemical engines on wheels, 4 hose carriages, all kinds; hose, cotton good 4,000 ft, inferior 700 ft; value of fire department equipment \$8,580; value of buildings \$6,000; ann expense \$1,600; total membership 71, paid. Chief engineer, Geo. F. Lockwood.

WATER SUPPLY—Source, river; system, pump direct; pumping engines, dy cap 2,000,000 gals; 65 hydrants; pipe 14 miles, 2 to 12 in dia; 25 valves; pressure, domestic 100, fire 115 pounds; works owned by company; cost to construct \$100,000. Supt, H. T. Sparks.*

Orono, Penobscot Co., population 2,790; fire area 8,000 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hand engines, 1 hook and ladder truck, 4 hose carriages; hose, linen good 200 ft, rubber good 1,200 ft, leather good 1,500 ft; value of fire department equipment \$5,000; value of buildings occupied \$18,500; total ann expenses of department \$700; total membership 100, volunteers; bell alarm. Chief engineer, E. E. Ring.

WATER SUPPLY—Source, 2 rivers; 22 cisterns and springs, (private) run through 1 mile of 1 inch galvanized iron pipe. Town clerk, E. F. Atwell.

Oxford, Oxford Co., population 1,455; fire area 1 sq mile; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted, fireworks ordinance, causes of fire investigated. Fire department—1 steam fire engine (in factory), 1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,000 ft, linen good 500 ft; 8 horses, \$700 each; total membership 76, paid part time; bell alarm. Chief engineer, Harry Littlewood.*

WATER SUPPLY—Source, wells and cisterns.*

Paris, Oxford Co. (See South Paris.)

Pembroke, Washington Co., population 1,400; mercantile buildings, wood, 1½ stories; private, same; wooden roofs are permitted; no fire works ordinance.

WATER SUPPLY—Source, wells and river.

Penobscot, Hancock Co., population 1,325; buildings, wood, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance. No fire department. No waterworks.

Phillips, Franklin Co., population 1,400; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,000; bell alarm. Chief engineer, W. M. Dutton.

WATER SUPPLY—Source, wells, cisterns and river. Town clerk, B. T. Parker.

Pittsfield, Somerset Co., population 2,503; buildings, wood and brick, 1½-2 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,400 ft, leather inferior

300 ft; value of fire department equipment \$2,000; total ann expenses of department \$400; total membership 80, volunteers; bell and whistle alarm. Chief engineer, T. S. Dexter.*

WATER SUPPLY—Source, river and pond; system, direct; 9 tanks, cap of tanks 200 hogheads each; 15 hydrants; pipe 2,000 ft. Supt, Robt. Dobson; town clerk, O. B. Haskill.

Pittston, Kennebec Co. (See Randolph) population 1,281; buildings, wood, 1 and 2 stories. Fire department—1 hand engine.*

WATER SUPPLY—Source and system not stated; 2 reservoirs. Town clerk, S. S. Clark.*

Poland, Androscoggin Co., population 2,472; fire area 400 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—hose, rubber good 300 ft. Chief engineer, J. S. Briggs, Jr.

WATER SUPPLY—Source, springs and 3 wells.*

Portland, Cumberland Co., population 40,000; buildings, wood and brick; fireworks ordinance; causes of fire investigated. Fire department—7 steam fire engines, 1 hand engine, 1 chemical engine, 16 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 6 hose carriages, 10 hose wagons, 2 fire boats; hose, cotton good 20,000 ft, inferior 10,000 ft; 25 horses; value of fire department equipment \$100,000; 12 buildings occupied; total membership 141, paid full time 22, paid part time 120; Gamewell alarm; 130 boxes. Chief engineer, Richard H. Ball.

WATER SUPPLY—Source, Lake Sebago, 17 miles distant; gravity; 2 reservoirs, cap 30,000,000 gals; 335 hydrants, pipe 78 miles, 6 to 24 in dia; 640 valves; works owned by company; quality of water first-class; pressure 35 to 65 pounds. Supt, G. P. Wescott.

Presque Isle, Aroostook Co., population 3,046; fire area 200 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 2 supply wagons, force pump; hose, rubber good 1,000 ft, cotton good 300 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total ann expenses of department about \$800; total membership 20, paid; bell alarm. Chief engineer, Leon S. Howe.

WATER SUPPLY—Source, Kennedy brook; system, gravity and direct; reservoir cap 25,000,000 gals; pumping engines, dy cap 1,250,000 gals; 10 hydrants, pipe 2½ miles, 6 to 8 in dia, 8 valves; 100 taps; service pipe 3-4 in iron; pressure, domestic 40, fire 100 pounds; works owned by company; original cost to construct \$30,000; ann expenses \$300. Pres and supt, G. H. Freeman.

Randolph, Kennebec Co., population 3,000; fire area 1 mile; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 2,000 ft, linen good 500 ft, leather 500 ft; value of fire department equipment \$5,000; value of buildings occupied \$100; total ann expenses of department \$300; total membership 100, paid part time 15, volunteer members 85; bell alarm. Chief engineer, L. W. Hunt.*

WATER SUPPLY—Source, from Gardner waterworks on opposite side of river; system, pumping to reservoir, cap 2,000,000 gals; pumping engines, dy cap 1,500,000 gals; 10 hydrants, 2 miles of pipe; quality of water good; works owned by company. Supt, Gustavus Moore, of Gardiner.*

Raymond, Cumberland Co., population 927; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; no fire department; 3 chemical extinguishers and pails.

WATER SUPPLY—Source, wells. Chairman of selectmen, Warren S. Churchill.

Richmond, Sagadahoc Co., population 3,082; buildings, wood, 1, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft, rubber good 300 ft, linen good 800 ft; value of fire department equipment \$1,500; total ann expenses of department about \$1,200; total membership 35, volunteers; bell alarm. Chief engineer, J. Clark Flagg.

WATER SUPPLY—Source, Kennebec river; sys-

tem, pump to reservoir, cap 1,000,000 gals; pumping engine, dy cap 1,000,000 gals; 41 hydrants; pipe 6 1-2 to 12 in dia; pressure, domestic 50 to 75, fire 80 pounds; works owned by company. Supt, Jno. L. Pushard. *

Rockland, Knox Co., population 8,174; mercantile buildings, brick and wood, 1 to 3 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, cotton good 1,000 ft; 5 horses, value \$1,600; total ann expenses of department \$4,000; total membership 95, volunteers; Gamewell alarm; 10 street boxes; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, A. H. Jones.

WATER SUPPLY—Source, Mirror Spring lake, 7 miles distant; system, gravity; reservoir cap 2,500,000 gals; 52 hydrants; pipe 54 miles, 2 to 12 in dia; quality of water good, pressure 95 pounds; works owned by company. Pres and supt, J. W. Crocker.

Sacarrappa (See Westbrook).

Saco, York Co., population 7,000; fire area 1 mile sq; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 6,800 ft, linen good 300 ft; 4 horses, value \$1,000; total membership 36, all volunteers; 2 fire companies. Chief engineer, J. H. Dennett.

WATER SUPPLY—Source, Saco river, 2 1-2 miles above city; system, pump to reservoir, cap 10,000,000 gals; pumping engine, dy cap 7,500,000 gals; 64 hydrants, pipe 30 miles, 2, 4, 6, 8, 12, 16 in dia; pressure, domestic 60 pounds, fire same; works owned by Company. Supt, Jos. Birnie.

Sanford, York Co., population 4,201. Fire department—1 steam fire engine, 2 hook and ladder trucks, 5 hose carriages, 1 hand tub, 5 pumps. E. M. Goodall.

WATER SUPPLY—Source, springs and artesian well; system, gravity and direct; 1 tank, cap of tank 52,000 gals; pumping engine, dy cap 300 gals per minute; 12 hydrants; 2 miles of pipe, 18 valves; pressure, domestic 15, fire 55 pounds; cost to construct \$10,000; ann expenses \$400. Supt, C. A. Bodwell. *

Seaboard, Waldo Co., population 1,693; fire area 1,280 acres; mercantile buildings, wood, 2 stories; private, wood 1-2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 700 ft, linen good 700 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,000; total membership 63; bell alarm. Chief engineer, J. H. Sullivan.

WATER SUPPLY—Source, 6 cisterns; cap 115,580 gals daily. *

Skowhegan, Somerset Co., population 5,500; fire area 640 acres; mercantile buildings, iron, brick and wood, 2 to 4 stories; private, wood, 1 1-2 to 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons, 1 supply wagon; hose, cotton good 3,800 ft, inferior 550 ft, leather poor 700 ft; 5 horses, value \$1,200; value of fire department equipment \$10,000; value of buildings occupied \$3,000; total ann expenses of department \$2,400; total membership 60, paid part time 1, volunteer members 49; bell and whistle alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, J. S. Nutting.

WATER SUPPLY—Source, brook; system, pumping to standpipe; standpipe cap 275,000; pumping engine, dy cap 2,000,000 gals; 79 hydrants; pipe 10 miles, 2 to 10 in dia, 68 valves; pressure 70 to 100 pounds; waterworks owned by company; cost to construct \$116,000; cost to date \$120,000; ann expenses \$1,400. Pres, Gen. R. B. Shepherd; supt, S. W. Gould.

South Berwick, York Co., population 3,434; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hand engines, 1 hook and ladder truck, 4 hose carriages, all kinds; owned by private company, 1 hose carriage and 500 ft, linen hose; hose, rubber good 200 ft, cotton good 500 ft, linen good 500 ft, leather good 1,400 ft; value of fire depart-

ment equipment \$1,500; value of buildings occupied \$1,800; total ann expenses of department \$750; total membership 150, paid full time; bell alarm. Chief engineer, A. Carpenter.

WATER SUPPLY—Source, wells; system, pumping to reservoir, reservoir cap 600,000 gals; pumping engine, cap per min 725 gals; hydrants 15; pipe 3 miles, 8 and 6 in dia; pressure, 62 to 123 pounds; waterworks owned by company. Supt, J. W. Burleigh.

South Paris, Oxford Co., population 1,500; fire area 500 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1 1/2 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 7 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton 1,500 ft, poor 100 ft; value of fire department equipment \$2,800; value of buildings occupied \$1,200; total ann expenses of department \$1,000; total membership 45, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, A. C. Jones.

WATER SUPPLY—Source, lake; system, pumping to reservoir, cap 500,000 gals; pumping engine, dy cap 1,000,000 gals; 24 hydrants; pipe 3 miles, 8 to 4 in dia; 10 valves; quality of water good; pressure, domestic 70, fire 80 pounds; works owned by company; cost to construct \$21,000. Pres and supt of com, W. W. Whitcomb.

Springvale, York Co., population 1,700; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hose carriage; hose rubber good 400 ft; bell alarm. Chief engineer, J. W. Yeaton. Other apparatus—1 tub, hooks, ladders and buckets. *

WATER SUPPLY—Source, springs; system pumping to reservoir; reservoir cap 61,000 gals; pumping engine, 100 gals per minute; 3 hydrants; pipe 3 1/2 miles, 3 to 6 in dia; 10 valves; pressure, domestic 45, fire 160 pounds; works owned by company; original cost to construct \$10,000. Pres, I. A. Butler, supt, F. A. Clark.

Stockton, Waldo Co., population 1,149; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, linen good 200 ft; value of fire department equipment \$250; total membership 29; bell alarm. Chief engineer, C. Fletcher. *

WATER SUPPLY—Source, wells and cisterns. *

Thomaston, Knox Co., population 3,000; mercantile buildings, wood and brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 6 hose carriages, all kinds, 1 hose wagon; hose, cotton good 3,850 ft, inferior 400 ft; total ann expenses of department \$600; total membership 100, volunteers; church bell alarm. Chief engineer, S. Andrews.

WATER SUPPLY—Source, Lake; system, gravity; 27 hydrants; pipe 12 miles, 10 in dia; pressure, domestic 50 to 60, fire 50 to 90 pounds; waterworks owned by company. Supt, J. Crocker.

Topham, Sagadahoc Co., population 1,394; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 1,000 ft, rubber good 500 ft; value of fire department equipment \$2,000; total ann expenses of department about 500; total membership 50, volunteers; whistle and bell alarm. Chief engineer, E. M. Brown.

WATER SUPPLY—Source, river; 5 reservoirs. Town clerk, T. W. Gireen.

Tremont, Hancock Co., population 2,096; mercantile buildings, wood, 2 stories; private, wood, 1 1/2 to 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—A company has been formed to supply town. Geo. R. Fuller, clerk.

Vassalboro, Kennebec Co., population 2,000; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—steam fire engine, 1 hand engine, 1 hose carriage. *

Vinal Haven, Knox Co., population 2,617; mercantile buildings, wood, 1½ to 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, extension ladder, 1 hose carriage; 1,500 ft good cotton hose; value of fire department equipment \$4,300; value of buildings occupied \$700; total ann expenses of department \$179.81; total membership 45, paid part time. Chief engineer, O. P. Lyons.

WATER SUPPLY—Source, wells and cisterns.

Waldoborough, Lincoln Co., population 3,505; fire area 1 mile square; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 1,000 ft, inferior 800 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,200; bell alarm. Chief engineer, J. P. Gidden.

WATER SUPPLY—Source, wells and cisterns. Town clerk, P. E. Storer.

Warren, Knox Co., population 3,000; fire area 1 sq mile; mercantile buildings, wood, 2½ stories; private, same; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage, hose 300 ft. Foreman, A. L. Beardman.

WATER SUPPLY—Source, Georges river, wells and cisterns.

Waterville, Kennebec Co., population 8,000; fire area 1,300 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, cotton good 8,000 ft; 4 hoses, value \$800; value of fire department equipment \$15,000; value of buildings occupied \$10,000; total ann expenses of department \$8,000; total membership 76, paid full time 2, paid part time 74; Gamewell alarm; street boxes 13; 1 engine company, 1 hook and company, 4 hose companies. Chief engineer, W. F. Brown.

WATER SUPPLY—Source, Messalonskee river; system, pumping to reservoir, cap 3,000,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 84; pipe 14 miles, 4 to 14 in dia; 150 valves; pressure 85 to 115 pounds; owned by company. Supt, John F. Nash.

Westbrook, (includes Saccarappa and Cumberland), Cumberland Co., population 7,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, 2 hose wagon; hose, cotton good 3,250 ft; 3 hoses; value of fire department equipment \$5,000; value of buildings occupied \$5,700; total ann expenses of department \$1,200; total membership 51, paid part time; bell and whistle alarm. Chief engineer, Chas. H. Leighton.

WATER SUPPLY—Source, supplied from Portland.*

West Waterville, Kennebec Co. (See Oakland.)

Wilton, Franklin Co., population 1,600; fire area 1.2 mile; mercantile buildings, wood, 1 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells and cisterns. Village clerk, B. M. Small.

Winn, Penobscot Co., population 936; buildings, wood, 1 and 2 stories; wooden roofs per-

mitted. Fire department—1 chemical engine; value of fire department equipment \$400. Chief engineer, T. E. Joy.

WATER SUPPLY—Source, river

Winterport, Waldo Co., population 1,926; Fire department—1 chemical engine, hooks Town clerk, C. R. Hill.

WATER SUPPLY—Source, private wells and cisterns, brook and river. Town clerk, C. R. Hill.

Winthrop, Kennebec Co., population 2,111; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder company, 2 hose carriages; hose, cotton good 1,500 ft; total ann expenses of department about \$250; total membership 25, volunteers; bell alarm. Chief engineer, B. A. Wing.*

WATER SUPPLY—Source, not given; system, gravity and direct pumping; force pump in factory; 10 hydrants; cost to construct \$5,000. Town clerk, E. S. French.*

Wiscasset, Lincoln Co., population 1,733; fire area 40 acres; mercantile buildings, brick and wood, 1, 2 and 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, rubber good 200 ft; leather good 1,050; total ann expenses of department about \$300; total membership 100, paid part time; whistle and bell alarm. Fire warden, E. B. Neal.*

WATER SUPPLY—Source, river and wells.*

Woodford, Cumberland Co. (See city of Deer-ing.)

Yarmouth, Cumberland Co., population 2,098; fire area 4,000 acres; buildings, wood, 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; total membership 40. Chief engineer, Henry Leavitt.

WATER SUPPLY—Source, river and springs; system, gravity; pipe 1 mile, 3 in dia; 2 valves; 30 taps; service pipe 3-4 in galv iron; works owned by company; original cost to construct \$1,200; ann expenses \$25; int on bonds 6 per cent. Pres, L. E. Cook.

York Beach, York Co., population 3,000; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—12 chemical extinguishers, 1 hook and ladder truck, 4 dozen fire pails; value of equipment \$250; value of buildings occupied \$200; membership 35, volunteers; bell alarm. Foreman, F. E. Frisbee.

WATER SUPPLY—Source, artesian well; system, pumping to tanks; cap 42,000 gals; pumping engines, dy cap 192,000 gals; pipe 6 miles, 3 to 6 in dia; pressure 30 to 60 pounds; works owned by company; cost to construct \$30,000; ann expenses \$643. Supt, H. E. Evans. (Will extend mains and put in fire hydrants this year.)

Places having a population of 1,000 and upward reported as having no fire protection: Belgrade, Kennebec Co., population 1,090; Bristol, Lincoln Co., population 2,821; Brooklin, Hancock Co., population 1,046; Brookville, Hancock Co., population 1,310; Chelsea, Kennebec Co., population 2,356; Deer Isle, Hancock Co., population 3,422; Durham, Androscoggin Co., population 1,111; Franklin, Hancock Co., population 1,264; Harpwell, Cumberland Co., population 1,766; Harrington, Washington Co., population 1,150; Lebanon, York Co., 1,263; Parsonfield, York Co., population 1,398; Readfield, Kennebec Co., population 1,178; Standish, Cumberland Co., population 1,341; Turner, Androscoggin Co., 2,016; Van Buren, Arcootook Co., population 1,168; Warren, Knox Co., population 2,037; Waterboro, York Co., population 1,357; Windham, Cumberland Co., population 2,216.

MARYLAND.

Annapolis, Anne Arundel Co., population 7,604; buildings, brick and wood, 2 and 3 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, siamese couplings; hose, cotton good 1,300 ft, rubber good 600 ft; value of equipment \$3,985; value of buildings occupied \$600; expenses for past year \$750; total membership 100; bell alarm. Chief engineer, Julian Brewer. Apparatus and equipment of naval academy available in case of emergency.

WATER SUPPLY—Source, springs; system, pumping to reservoir; and direct; reservoir cap 10,000,000 gals; pumping engines, dy cap 800,000 gals; 45 hy-

drants; mains 4 to 8 in dia; 20 valves; pressure 10 to 30 pounds; waterworks owned by company; cost to construct \$61,450, to date \$90,000; ann expenses \$9,000. Pres of company, Jas. H. Brown.

Baltimore, Baltimore Co., population 434,439; fire area 33 sq miles; mercantile buildings, brick, iron and stone, 3 to 8 stories; private, brick and stone, 2 to 5 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—18 steam fire engines, 1 fire boat, 8 chemical engines on wheels, 34 chemical extinguishers, 9 hook and ladder trucks, 6 aerial

trucks, 5 hose carriages, 11 hose wagons, 1 supply wagon. (In reserve: 5 steam fire engines, 10 hose carriages, 1 aerial truck, 1 bank and 1 light truck, 1 chemical engine, 16 chemical extinguishers;) hose, rubber good 2,700 ft, inferior 2,550 ft, cotton good 34,400 ft, inferior 14,150 ft; 141 horses, value \$42,300; value of fire department equipment \$200,000; value of buildings occupied \$300,000; total ann expenses of department \$420,784; total membership 304, paid full time; Gamewell electric alarm; street boxes 348. Chief engineer, John J. Ledden. (Proposed: 1 Hayes truck, 6 hose wagons) Salvage Corps.—2 patrol wagons, 5 horses, 282 covers, 6 fire extinguishers, 16 men. Capt. J. C. McGregor.

WATER SUPPLY—Source, Jones' Falls and Gunpowder river; system, gravity and pumping to reservoir; reservoirs and lakes cap 2,315,000,000 gals; pumping engines, dy cap 21,000,000 gals; hydrants 1,474; pipe 2,528,609 ft, 1½ to 40 in; pressure 25 to 75 pounds; waterworks owned by city; original cost to construct \$12,000,000; ann expenses \$160,000. Supt, Wm. L. Kenly.

Bel Air, Harford Co., population about 2,000; fire area 400 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories. Fire department—2 hose carriages, 6 ladders, hooks and buckets; hose, cotton good 750 ft; value of fire department equipment \$700; value of buildings occupied \$200; total membership 50, volunteers; bell alarm. Chief, H. B. Bruns.

WATER SUPPLY—Source, springs, 3 miles distant; system, gravity; cap of reservoir 1,500,000 gals; 45 hydrants; pipe 6 miles, 8 to 4 in dia; valves 12; pressure 35 pounds; works owned by company; cost to construct \$40,000; cost to date \$42,257; ann expenses \$300. Supt, John S. Dallam.

Boonsboro, Caroline Co., population 800; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, other apparatus, 25 buckets; value of fire department equipment \$400; value of buildings occupied \$125; bell alarm.*

WATER SUPPLY—Source, wells and cisterns. (Works contemplated.)

Brunswick, Frederick Co., population not given; fire area 3 square miles; mercantile buildings, wood, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, wells and cisterns. City clerk, E. C. Shafer. (Works talked of.)*

Cambridge, Dorchester Co., population 4,192; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; hose, cotton good 2,500 ft, linen good 304 ft; value of fire department equipment \$10,000; value of buildings occupied \$2,500; total ann expenses of department \$300; membership 100, volunteers; bell alarm, McShane; 5 fire companies, 2 engine companies, 1 hook and ladder company, 2 hose companies. Chief engineer, W. J. Edger.

WATER SUPPLY—Source, artesian wells, 365 ft deep; system, pumping to standpipe and direct; standpipe cap 115,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 32; pipe 6 miles; taps 348; valves 49; pressure, domestic 40 to 50, fire 75 to 100 pounds; waterworks owned by company. Supt, G. Warren Mundy.

Catonville, Baltimore Co., population 2,115. No organized fire department—1 chemical engine; hose, rubber good 250 ft.*

WATER SUPPLY—Source, artesian wells and streams; system, pumping to 2 tanks; cap of tanks 585,000 gals; pumping engines, dy cap 500,000 gals; 6 miles mains; 8 meters; 160 taps; 10 fire plugs. Pres and sec, J. M. Cone.*

Centreville, Queen Anne Co., population 1,300; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage, 2 extension ladders, buckets and axes; hose, linen good 850 ft, inferior 100 ft; value of fire department equipment \$1,000; total membership 35, all volunteers; bell alarm. Chief engineer, F. Gemmill.

WATER SUPPLY—Source, stream; system, pump-

ing to standpipe, cap 87,500 gals; 40 hydrants; pipe 3 miles; cost to construct \$17,000. Supt, Horace Vasey.

Chestertown, Kent Co., population 3,000; fire area 250 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick, 2 and 3 stories; shingle and slate roofs; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, inferior 500 ft, leather good 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,200; total membership 40, volunteers; bell alarm. Chairman of fire com, C. F. Westcott.

WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 240,000 gals; 50 hydrants; pipe 6 miles, 8, 4 and 3 in dia; 16 valves; 250 taps; pressure, domestic 25 to 30, fire 30 to 60 pounds; waterworks owned by company; original cost to construct \$25,000; ann expenses \$2,000. Chairman of com and mayor, C. T. Westcott.

Crisfield, Somerset Co., population 3,000; buildings, wood, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage, 2 hand ladders, stamess couplings used; hose, rubber good 800 ft, poor 400 ft; value of fire department equipment \$5,000; 2 horses, value \$250; value of buildings occupied \$750; ann expenses \$600; volunteers 15, 1 paid member; bell alarm; fire patrols supported by subscription and tax. Chief engineer, A. T. Somers.

WATER SUPPLY—Source, artesian wells, river; system, pumping to standpipe, cap 84,750 gals; dy cap 2,500,000; pipe 6 miles, 12 to 4 in dia. Pres and supt, John H. Buxtin.

Cumberland, Allegany Co., population 14,796; fire area 3,000 acres; mercantile buildings, brick and stone, 1 to 6 stories; private, brick, 1 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 hand engines, 1 chemical engine, 7 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 2,000 ft, inferior 1,500 ft, rubber good 1,000 ft, poor 500 ft; 2 horses, value \$500; value of fire department equipment \$15,000; value of buildings occupied \$18,000; total ann expenses of department \$1,000; total membership 800, volunteers; bell and whistle alarm. Chief engineer, W. B. Clark.

WATER SUPPLY—Source, Potomac river; system, pumping direct into mains; pumping engines, dy cap 2,000,000 gals; hydrants 130; pipe 16 miles, 24 to 8 in; taps 2,200; valves 65; pressure, domestic 75 lbs, fire 90 to 120 pounds; waterworks owned by city; original cost to construct \$100,000; expenses of construction to date \$180,000 (estimated); ann expenses \$7,500. Supt, D. A. Wineon.

Easton, Talbot Co., population 2,600; fire area 3-4 mile sq; buildings, brick and wood, 2 and 3 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,650 ft, inferior 200 ft, leather good 500 ft, cotton good 300 ft; value of equipment \$8,500; value of buildings occupied \$3,000; total membership 40, all volunteers; bell alarm. Chief engineer, E. Roberts.*

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; 1 reservoir, cap 135,000 gals; standpipe 85,000 gals; pumping engines, dy cap 750,000 gals; 40 hydrants; pipe 6½ miles, 4 to 8 in dia; 50 valves; 275 taps; pressure, domestic 45, fire 150 pounds; works owned by company; cost to construct \$40,000; cost to date \$30,000; ann expenses \$1,500. Supt and sec, W. E. Shanahan.

Elkton, Cecil Co., population 2,800; fire area 500 acres; mercantile buildings, brick and wood, 2½ stories; private, brick and wood, 2½ stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total membership 70, volunteers; bell alarm. Chief engineer, J. M. Tucker.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 1,500,000 gals; pumping engines, dy cap 750,000 gals; hydrants 50; pipe 5 1-2 miles, 10 to 4 in dia; valves 10; pressure 75 pounds; waterworks owned by

company; original cost to construct \$35 to \$40,000. Supt. Walter Denny.

Killecott City, Howard Co., population 2,000; fire area 4 miles; mercantile buildings, stone and wood, 1 and 2 stories; dwellings, stone and wood, 1 and 2 stories. Fire department—2 (6 gal) chemical extinguishers, 1 hook and ladder truck, 60 rubber buckets; value of equipment \$500; value of buildings occupied \$500; membership 75, all volunteers; bell alarm; 1 fire company. Chief engineer, B. T. Scaggs.

WATER SUPPLY—Source, wells, springs and streams. Register, Jas. E. Vansant. (Will probably put in waterworks.)

Kennettburgh, Frederick Co., population 950. Fire department—1 hook and ladder truck, 2 hose carriages; hose, leather good 1,500 ft; total membership 50, volunteer. Chief engineer, G. T. Ryster.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,000,000 gals; hydrants 16; pipe 4 miles, 4, 6 and 8 in dia; 5 valves; pressure 125 pounds; works owned by company; cost to construct \$18,000; ann expenses \$400. Pres and supt of com, I. S. Arman.

Fort McHenry, Baltimore Co., population 250; mercantile buildings, brick and frame, 2 stories; private, wood, 2 stories; tin and slate roofs used; no fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, all kinds, Babcock extinguishers; hose, linen good 1,000 ft; total membership 180; bugle alarm. Chief officer, Col. E. C. Bambridge.*

WATER SUPPLY—Source, see Baltimore.*

Frederick, Frederick Co., population 8,193. Fire department—3 steam fire engines, 4 chemical extinguishers, 2 hook and ladder trucks, 10 hose carriages; hose, rubber good 2,000 ft, leather good 500 ft; total membership 700, all volunteers.

WATER SUPPLY—Source, river and spring; system, gravity; reservoir cap 1,900,000 gals; 101 hydrants; 10 miles pipe, 4 to 10 in dia; 35 gates; 1 meter; pressure 15 to 25 pounds; cost to construct \$125,000; ann expenses \$1,700. Supt, F. F. Tyers.*

Frostburg, Allegany Co., population 5,000; fire area 5 miles; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 to 3 stories; tin and sheet-iron roofs; fireworks ordinance. Fire department—2 hook and ladder trucks, 2 hose carriages; hose, rubber good 1,000 ft, poor 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$4,000; ann expenses \$380; total membership 70, volunteers; bell alarm. Chief engineer, Frank Spata.

WATER SUPPLY—Source, springs 1 1/2 miles distant; system, gravity; reservoir cap 4,650,000 gals; 38 hydrants; pipe 61-2 miles, 2 to 8 in dia; 28 valves; pressure 80 to 120 pounds; waterworks owned by city; cost to construct \$40,000; cost to date \$55,000; ann expenses \$1,300. Supt, Alfred Jaffries.

Govanstown, Baltimore Co., population 3,000; fire area 12 acres; buildings, private, brick and wood, 2, 3 and 4 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 12 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 500 ft; 2 hoses, value \$700; value of fire department equipment \$4,000; value of buildings occupied \$4,000; 10 companies; total ann expenses of department \$2,300; members paid full time 2, paid part time 2, volunteers 7; Gamewell alarm; 83 street boxes. Chief engineer, Geo. B. Tracy.*

WATER SUPPLY—(Works not reported.)

Hagerstown, Washington Co., population 12,500; fire area 2 miles by 2 miles; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 3 hand engines, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 3,600 ft, fair 1,400 ft, leather good 1,000 ft; 5 hoses; value of equipment \$15,000; value of buildings occupied \$28,000; total ann expenses of department \$1,200; total membership 2,000, volunteers; bell alarm; 5 fire companies. Mayor, R. J. Hahn.

WATER SUPPLY—Source, springs and artesian well, located on Blue Ridge Mountains; system, gravity; reservoir cap 20,000,000 gals; dy cap 1,500,000 gals; pumping engines; 58 hydrants; pipe 23 miles, 4 to 12 in dia; 70 valves; pressure, domestic 80 to 100 pounds, fire same; works owned by company; cost to construct \$150,000; ann expenses

\$2,500; int on bonds 4 per cent. Supt and treas, C. F. Manning.

Havre de Grace, Hartford Co., population 3,344; mercantile buildings, wood and brick, 2 1/2 stories; private, wood, 2 1/2 stories; wooden roofs permitted. Fire department—2 hose carriages; hose, rubber good 2,500 ft; value of buildings occupied \$300; total ann expenses of department \$700. Chief engineer, B. T. Mitchell.

WATER SUPPLY—Source, Susquehanna river; system, pumping to reservoir; reservoir cap 4,000,000 gals; Davidson Steam Pump Co. pumping engines, dy cap 360,000 gals; pipe 5 miles; 5 meters; quality of water good; pressure, domestic 80 to 100, fire 130 pounds; waterworks owned by company; cost to construct \$20,000; int on bonds 6 per cent. Supt, J. W. Maalin.

Laurel, Prince George Co., population 1,984; buildings, wood, 1 and 2 stories; private, wood; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, buckets.*

WATER SUPPLY—Source, wells.*

Libertytown, Frederick Co., population about 600; fire area 75 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine; value of fire department equipment \$750; value of buildings occupied \$400; total membership 40, volunteers; 1 fire company. Sec. Edw. Devillias.

WATER SUPPLY—Source, wells and cisterns.

Lonaconing, Allegany Co., population 7,000; fire area 260 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 500 ft, linen good 800 ft; value of fire department equipment \$2,400, membership 40, volunteers. Chief engineer, Samuel Barber, Jr.

WATER SUPPLY—Source, creek and streams.

Mechanicstown, Frederick Co., population 1,200; fire area 8 miles; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 800 ft; value of fire department equipment \$1,250; value of buildings occupied \$4,500; total membership 50, volunteers; bell fire alarm. Foreman, Chas. E. Cassell.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 100,000 gals; hydrants 18; pipe 3 miles, 6 in dia; pressure, domestic 80, fire 90 pounds; waterworks owned by company; cost to construct \$10,000; ann expenses \$100. Supt, S. M. Birely.

Northeast, Cecil Co., population 1,850; fire area 95 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—chemical extinguishers and buckets.

WATER SUPPLY—Source, wells.

Oakland, Garrett Co., population 1,200; fire area 75 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 8 chemical extinguishers, 1 hook and ladder truck; hose, linen good 150 ft; value of fire department equipment \$1,200; value of buildings occupied \$200. Chairman of fire and water com, W. Henebaught.

WATER SUPPLY—Source, wells, cisterns and river. (Works will be put in at an early date.) Mayor, A. G. Sturgis.

Pocomoke City, Worcester Co., population 2,000; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 1,100 ft; value of fire department equipment \$3,000; value of buildings occupied \$700; expenses for past year \$500; total membership 25, all volunteers; whistle and bell alarm. Chief engineer, R. M. Stevenson.

WATER SUPPLY—Source, river and private wells.

Port Deposit, Cecil Co., population 1,808; mercantile buildings, granite, wood and brick, 3 stories; private, wood, 2 1/2 stories; fireworks ordi-

nanos. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages, 6 buckets; hose cotton good 1,700 ft. inferior 300 ft. rubber good 300 ft. inferior 200 ft; horses hired; total membership 60, 1 paid part time; bell and whistle alarm; 2 fire companies. Chief engineer, G. A. Hinwahter.

WATER SUPPLY—Source, river and springs. (Will put in regular system of works.)

Saint Michaels, Talbot Co., population 1,500; fire area 5 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, bucket brigade; hose, rubber good 100 ft. poor 75 ft. linen new 75 ft; value of fire department equipment \$500; value of buildings occupied \$300; total ann expenses of department \$100; total membership 25, volunteers; bell alarm. Chief engineer, S. F. Lewis.

WATER SUPPLY—Source, wells; 3 artesian wells. Town clerk, J. W. Dean.

Salisbury, Wicomico Co., population 2,905; mercantile buildings, wood and brick, 2 and 3 stories; private, wood and brick, 2, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft. inferior 800 ft; 4 horses, value \$800; value of fire department equipment \$10,000; value of buildings occupied \$500; total ann expenses of department \$300; total membership 125, paid part time 2; bell alarm. Chief engineer, Fred A. Grier.

WATER SUPPLY—Source, river and artesian wells; system, pumping to standpipe and direct; cap of standpipe 86,500 gals; pumping engines, dy cap 875,000 gals; 22 hydrants; pipe 5½ miles, 2 to 8 in dia; 60 valves; pressure 45 to 135 pounds; cost to construct \$25,000; cost to date \$30,000. Supt, L. B. Bell.

Snow Hill, Worcester Co., population 1,600; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fire-

works ordinance. Fire department—bucket brigade; bell and whistle alarm.

WATER SUPPLY—Source, Pocomoke river and wells; (fire department was destroyed in fire last year; strong effort being made to put in waterworks and new equipment.)

Tewson, Baltimore Co., population 1,487; fire area 10 acres; mercantile buildings, brick, 2 stories; dwellings, wood, 1 story; no fireworks ordinance; wooden roofs not permitted. Fire department—ladders and buckets; bell alarm.*

WATER SUPPLY—Source, cisterns and wells.*

Union Bridge, Carroll Co., population 1,000; buildings, brick and wood, 3 and 2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, 1,000 ft; total membership 37, volunteers; bell alarm. Chief engineer, Chas. T. Hiltabidle.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 425,000 gals; pumping engines, dy cap 250,000 gals; 18 hydrants; pipe 2½ miles, 4 to 8 in dia; 40 gates; pressure 40 to 100 pounds; waterworks owned by company; cost to construct \$17,500; ann expenses \$350. Supt, J. Hollenberger.

Westminster, Carroll Co., population 2,903; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 500 ft. leather 500 ft. cotton good 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total ann expenses of department \$150; total membership 50, volunteers. Chief engineer, F. K. Herr.

WATER SUPPLY—Source, springs, 1 mile south-east of city; system, pumping to reservoir and direct; reservoir cap 1,000,000 gals, 2 pumping engines, dy cap 500,000 gals each; 45 hydrants; pipe 51-8 miles, 2 to 8 in dia; pressure, domestic 55, fire 100 pounds; waterworks owned by company; cost to construct \$45,000; ann expenses \$2,000. Supt, W. W. Taylor.

MASSACHUSETTS.

Abington, Plymouth Co., population 4,800; mercantile buildings, wood, 3 and 4 stories; private, wood, 1½ and 2½ stories; wooden roofs permitted; State fireworks ordinance. Fire department—private chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages; hose, cotton good 3,000 ft; 8 horses, hired; value of fire department equipment \$4,000; value of buildings occupied \$5,000; total ann expenses of department \$3,400; total membership 85; bell and whistle alarm; 2 hook and ladder companies, 2 hose companies. Chief engineer, A. H. Wright.

WATER SUPPLY—Source, Big Sandy Pond; system, pumping to standpipe; standpipe cap 307,000 gals; pumping engines, dy cap 3,000,000 gals; 142 hydrants; pipe 20 miles, 4 to 12 in dia; 85 valves; pressure 65 to 75 pounds; waterworks owned by town; cost to construct \$175,000. Supt, A. H. Wright.

Acton, Middlesex Co., (includes North, South, East and West Acton) population 2,000; mercantile buildings, wood, 2 stories; private, wood, 1-1-2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 hand engines, 4 hook and ladder trucks, hose carried on engine; pails and Johnson hand pumps; hose, cotton good 150 ft. rubber good 60 ft. linen good 550 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 100, volunteers; church bell alarm. Chief engineer, L. V. Bowen.

WATER SUPPLY—Source, river.*

Adams, Berkshire Co., population 9,500; fire area 25 sq miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 6 hose carriages; hose, cotton good 2,400 ft. linen unlined good 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$7,000; ann expenses \$800; total membership 45, volunteers; electric alarm; 18 street boxes. Chief engineer, Henry A. Jones.

WATER SUPPLY—Source, mountain streams; system, gravity; reservoir cap 16,000,000 gals; pump-

ing engines, dy cap 500 gals per minute; 180 hydrants; pipe 10 miles, 4 to 12 in dia; 50 valves; pressure 110 to 150 pounds; waterworks owned by fire district; cost to construct \$150,000; cost to date \$200,000. Pres. N. H. Birby; supt, C. A. Waters.

Agawam, Hampden Co., population 2,353; mercantile buildings, stone and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. No organized fire department.

WATER SUPPLY—Source, springs; system, gravity; pipe 5 miles, 4 in dia; pressure 45 pounds. Pres and owner, Chas. L. Goodhue; town clerk, Judson W. Hastings.

Amesbury, Essex Co., population 10,000; fire area 1,500 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 4 hose wagons; hose, cotton good 6,000 ft; 10 horses, value \$2,000; value of fire department equipment \$8,000; value of buildings occupied \$7,000; expenses of department for past year \$4,000; total membership 79, paid part time; whistle and bell alarm. Chief engineer, W. J. Bishop; chairman, R. F. Briggs.

WATER SUPPLY—Source, springs and driven wells; system, pumping to reservoirs and direct; 1 reservoir, cap 2,000,000 and 1 of 300,000 gals; 2 pumping engines, dy cap 1,000,000 gals each and 1 of 500,000 gals; 125 hydrants; pipe 10 miles, 4 to 12 in dia; pressure, domestic 60, fire 100 pounds; waterworks owned by company; cost to construct to date \$130,000; Pres of com, Richard F. Briggs; treasurer, E. R. Sibley.

Amherst, Hampshire Co., population 4,600; fire area whole town; mercantile buildings, wood, stone and brick, 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 4 chemical extinguishers, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 2,300 ft; value of fire department equipment \$2,300; value of buildings occupied

\$1,000; total ann expenses of department \$900; total membership 36, paid part time; bell alarm. Chief engineer, John Mullen.

WATER SUPPLY—Source, Amethyst Brook; system, gravity; reservoir cap 1,000,000 gals; 50 hydrants; pipe 15 miles, 2 to 12 in dia; pressure, domestic 100, fire 80 to 100 pounds; waterworks owned by company; cost to construct \$80,000. Supt, Wm. W. Hunt.

Andover, Essex Co., population 6,142. Fire department—2 steam fire engines, 1 hook and ladder truck, 1 hose wagon, 2 hose carriages; hose, cotton good 5,000 ft; 3 horses, value \$600; value of fire department equipment \$7,400; value of buildings occupied \$12,000; total expenses of department for past year \$2,500; total membership 40; 2 fire companies; electric alarm. Chief engineer, Lewis L. Hardy.

WATER SUPPLY—Source, Haggatts pond; system, pumping to reservoir, cap 1,250,000 gals; pumping engines, dy cap 1,500,000 gals; 178 hydrants; pipe 23½ miles, 4 to 14 in dia; 216 valves; 801 taps; pressure, domestic 75 pounds; fire direct pressure from pumps; waterworks owned by town; cost to construct \$160,000; cost to date \$182,000; ann expenses \$4,000. Supt, John E. Smith.

Arlington, Middlesex Co., population 8,000; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 5 chemical extinguishers, 1 hose wagon, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 3,800 ft; 4 horses, value \$1,000; value of fire department equipment \$8,000; value of buildings occupied \$25,000; total ann expenses of department \$4,500; total membership 53, paid full time 1, paid part time 52; Gamewell alarm; 28 street boxes. Chief engineer, Chas. Gott.

WATER SUPPLY—Source, surface water and springs; system, gravity; reservoir cap 70,000,000 gals; 124 hydrants; pipe 17 miles, 12 to 4 in dia; 101 valves; 895 taps; pressure 50 to 75 pounds; works owned by town; original cost to construct \$310,589; cost to date \$604,744; ann expenses \$9,000. Chairman, A. D. Horitt; supt, Thos. Roden.

Ashburnham, Worcester Co., population 2,074; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 3 hose carriages; hose, cotton good 2,000 ft, leather poor 500 ft; value of fire department equipment \$7,000; value of buildings occupied \$4,000; total ann expenses of department \$800; total membership 100, volunteers; bell alarm. Chief engineer, J. W. Bride.

WATER SUPPLY—Source, springs; system, gravity; impounding reservoir, cap 1,500,000 gals; 18 hydrants; pipe 3 miles, 10 to 6 in dia; valves 10; pressure, domestic 40, fire 70 pounds; water owned by company; cost to construct \$10,000; ann expenses \$60. Pres of com, I. W. Adams; supt, W. B. Whitney.

Ashby, Middlesex Co., population 825; buildings, wood, 2 stories. Fire department—1 chemical engine on wheels; value of fire department equipment \$1,100; total ann expenses of department \$25; total membership 30, volunteers; bell alarm. Chief engineer, Chas. O. Green.*

WATER SUPPLY—Source, wells. Town clerk, J. W. Sheldon.*

Ashland, Middlesex Co., population 2,532; fire area 7,672 acres; mercantile buildings, wood and brick, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck (extension), 2 hose carriages, 2 hose couplings used; hose, cotton good 3,000 ft; 4 horses, hired; value of fire department equipment \$7,700; value of buildings occupied \$2,000; total ann expenses of department \$900; total membership 40; bell alarm. Chief engineer, J. H. Bacon.

WATER SUPPLY—Source, river, brooks and ponds.

Attol, Worcester Co., population 6,319; fire area 2,000 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 steam fire engines, 1 hand engine (in reserve), 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 6,500 ft, inferior 1,500 ft, rubber inferior 150 ft, leather inferior 350 ft; 4 horses, value

\$1,000; value of fire department equipment \$12,000; value of buildings occupied \$1,500; total ann expenses of department \$6,500; total membership 80, paid part time; bells and whistle alarm. Chief engineer, F. A. Hopkins. (Cost of new fire station \$15,000; will put in alarm system.)

WATER SUPPLY—Source, brooks and springs; system, gravity; 4 reservoirs, cap 80,000,000 gals; 60 hydrants; pipe 15 miles, 4 to 14 in dia; 30 meters; quality of water good; filter; pressure, domestic 50 to 140 pounds, fire same; works owned by company; cost to construct \$150,000; ann expenses \$2,500; int on bonds 4 per cent. Supt, Warren G. West.

Attleborough, Bristol Co., population 7,577; fire area 2,700 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 6 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages; Eastman Deluge set; hose, cotton good 3,000 ft, inferior 500 ft, leather inferior 500 ft; 4 horses, 2 hired; value of fire department equipment \$10,000; value of buildings occupied \$10,000; total ann expenses of department \$4,500; total membership 51, paid part time 39, volunteers 12; Gamewell alarm; 20 street boxes. Chief engineer, H. R. Packard.

WATER SUPPLY—Source, wells and river; system, pumping to standpipe and direct; standpipe cap 700,000 gals; pumping engines, dy cap 2,500,000 gals; 137 hydrants; pipe 23 miles, 4 to 16 in dia; 400 meters; quality of water clear; pressure, domestic 67 pounds, fire same; cost to construct \$170,909.82; ann expenses \$4,040. Supt, H. A. Borden.*

Avon, Norfolk Co., population 1,500; fire area 2 miles; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ to 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hose wagon and 1 reel; hose, cotton good 1,200 ft, inferior 200 ft; 2 horses, hired; value of fire department equipment \$4,500; value of buildings \$2,000; total ann expenses of department \$500; total membership 18; bell and whistle alarm. Chief engineer, William Geary.

WATER SUPPLY—Source, well fed by spring; system, pumping to standpipe; cap 212,670 gals; pumping engines, dy cap 1,000,000 gals; 49 hydrants; pipe 6 miles, 6, 8 to 10 in dia; 33 valves; 248 taps; pressure, domestic 66, fire 85 pounds; works owned by town; cost to construct \$52,000; ann expenses \$1,800. Supt, N. Tucker.

Ayer, Middlesex Co., population 2,300; fire area 7 sq miles; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton rubber lined good 1,700 ft; value of fire department equipment \$3,500; value of buildings occupied \$800; total ann expenses of department \$800; total membership 50, paid full time 40, paid part time 10; bell and whistle alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Augustus Louger.

WATER SUPPLY—Source, collecting well; system, pumping to reservoir; cap 1,000,000 gals; pumping engines, dy cap 2,000,000 gals; 43 hydrants; pipe 5.35 miles, 1 to 14 in dia; 14 meters; pressure 65 pounds; waterworks owned by town; cost to construct \$63,000; int on bonds 4 per cent. Supt, H. W. Whitney.*

Baldwinsville (See Templeton).

Barre, Worcester Co., population 2,239; fire area 7 miles sq; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 chemical engine on wheels, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,500 ft, rubber good 465 ft; value of fire department equipment \$4,281.50; value of buildings occupied \$1,700; total expenses of department for past year \$881.68; total membership 22, paid part time, volunteers 52; bell alarm. Chief engineer, C. W. Fallansby.

WATER SUPPLY—Source, stream, large reservoirs.

Bedford, Middlesex Co., population 1,200; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose car-

riages; hose, linen good 550 ft, rubber 26 ft; value of fire department equipment \$2,200; value of buildings occupied \$900; total ann expenses of department \$450; total membership 80, paid full time; bell alarm. Chief engineer, Jas. H. Gillooly.

WATER SUPPLY—Source, 5 large cisterns, cap 15,000 gals each, and stream.

Belchertown, Hampshire Co., population 2,120; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$400; total membership 15, volunteers. Foreman, H. A. Hopkins.

WATER SUPPLY—Source, wells and springs. Town clerk, G. W. Longley. (A system of works is contemplated.)

Belmont, Middlesex Co., population 2,098; buildings, wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 1 chemical engine on wheels, 2 hose carts, 2 hose wagons, 2 pumps, hand grenades; hose, cotton good 3,600 ft, inferior 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of department \$1,000; total membership 33, paid part time; Stevens electric alarm; 15 street boxes. Chief engineer, G. H. Prentiss.

WATER SUPPLY—Source, Watertown Water Supply Co., brooks; 101 hydrants; 10 1-10 miles of pipe, 2 to 12 in dia; 133 meters; cost to construct \$58,200. Supt, W. J. Underwood.

Beverly, Essex Co., population 13,000; fire area 8,000 acres; mercantile buildings, wood and brick, 2 to 5 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 8 chemical extinguishers, 2 hook and ladder trucks, 6 hose carriages, all kinds, 3 hose wagons; hose, rubber good 9,000 ft, inferior 1,200 ft; 7 horses, value \$2,100; value of fire department equipment \$23,000; value of buildings occupied \$40,000; total ann expenses of department \$12,000; total membership 160, paid full time 6, paid part time 154; Gamewell alarm; street boxes 30. Chief engineer, Levi K. Goodhue.

WATER SUPPLY—Source, Wenham Lake; system, pumping to reservoir and direct; reservoir cap 3,200,000 gals; pumping engines, dy cap 4,000, 000 gals; 230 hydrants; pipe 57 miles, 4 to 18 in dia; 350 valves; taps 2,600; pressure 75 pounds; waterworks owned by town; cost to construct \$900,000. Pres, Peter E. Clark; supt, Chas. Pickett.

Billerica, Middlesex Co., population 2,380 (includes North Billerica); fire area 17,000 acres; mercantile buildings, brick, 4 stories; private, wood, 2 and 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine, 12 chemical extinguishers, 2 hook and ladder trucks, 1 hose carriage, 1 hose wagon; hose, linen good 3,700 ft; auxiliary apparatus covering the village, 4 rotary force pumps, 350 ft linen and rubber lined hose, and 2 carriages and hose company; 10 men, connected with mills; value of fire department equipment \$7,000; value of buildings occupied \$7,000; total ann expenses of department \$7,500; total membership 80, paid part time. Chief engineer, Edward B. Haskell.

WATER SUPPLY—Source, river, wells and cisterns. Town clerk, Dudley Foster.

Blackinton, Berkshire Co., population 1,000; buildings, wood, 2 to 4 stories; wooden roofs permitted. Fire department—1 hose carriage, 500 hand grenades; hose, 500 ft cotton good, 500 ft of unlined linen good; value of fire department equipment \$1,000; automatic alarm. D. Eadie.

WATER SUPPLY—Source, brook and mountain springs; system, gravity and direct; reservoir cap 250,000 gals; 3 force pumps; 5 hydrants; pipe ½ mile, size ½ to 6 in dia; 3 valves; pressure, 141 pounds; cost to construct \$7,000; Blackinton Co., supt; 3 double hydrants supplied by N. Adams water main; pressure 135 lbs, also 2 rotary pumps connected with other hydrants.

Blackstone, Worcester Co., population 6,054; area 4,000 acres; buildings, brick and wood, 2 to 4 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 8 hose carriages, 1 hose wagon; hose, cotton good 1,700 ft, inferior 200 ft; 2 horses, value \$500; value of equipment \$4,000; total membership 21, paid full time; bell and whistle alarm. Chief engineer, John F. Campbell.

WATER SUPPLY—Source, wells and cisterns.

Town clerk, James H. Hefferman. (Waterworks system is contemplated; Co. has been formed.)

Bolton, Worcester Co., population 835; buildings, brick and wood, 1 1-2 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, buckets, ladders and force pumps; value of fire department equipment \$200; value of buildings occupied \$100; total membership 13, volunteers; bell alarm. Chief engineer, George L. Taylor.

WATER SUPPLY—Source, brooks and wells. Town clerk, A. S. Haynes.

Boston, Suffolk Co., population 478,000; fire area 22,923 acres; mercantile buildings, brick and stone, 5 to 13 stories; private, brick and wood, 3 to 8 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—43 steam fire engines, 8 spare, 10 chemical engines on wheels, 1 spare, 100 chemical extinguishers, 13 hook and ladder trucks, 3 spare, 4 aerial trucks, 46 hose carriages, all kinds, 11 spare, 35 supply wagons, 1 fire boat, 2 water towers, slamese couplings used; hose, cotton good 75,000 ft, rubber good 6,000 ft, chemical good 5,500 ft, suction hose, 1,000 ft, hand hose 3,000 ft; 223 horses; value of fire department equipment \$353,000; total ann expenses of department \$1,020,000; total membership 775, paid full time 629, paid part time 146; Gamewell alarm; street boxes 556. Chief engineer, Lewis P. Webber; fire com, Robt. G. Fitch, J. R. Murphy; G. H. Innis. Fire patrol incorporated and supported by Board of Underwriters at ann expense of \$34,000, 56 men.

WATER SUPPLY—Source, Sudbury river, lakes Cochituate and Mystic; system, gravity and pumping to reservoir, cap 700,000,000 gals; pumping engines, dy cap 27,000,000 gals; 6,316 hydrants; pipe 710 miles, 4 to 48 in dia; 7,380 valves; pressure 20 to 80 pounds; Edson pressure recording gauge; works owned by city; cost to construct \$23,354,469; ann expenses \$573,176 (13 mos); int on bonds \$802,905.32. Supts, D. Fitzgerald, W. J. Welch, E. S. Sullivan.

Bourne, Barnstable Co., population 1,442; fire area 24,000 acres; mercantile buildings, wood, brick and stone, 2 stories; private, wood, 1 to 2 stories; wooden roofs are permitted; no fireworks ordinance; no fire department.

WATER SUPPLY—No waterworks.

Bradford, Essex Co., population 3,720; fire area 6,534 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 2 hose wagons; hose, cotton good 1,100 ft, inferior 1,600 ft; 3 horses, value \$1,075; value of fire department equipment \$4,600; value of buildings occupied \$3,500; total ann expenses of department \$4,000; total membership 23, paid full time 1, paid part time 1; Gamewell alarm; 7 street boxes. Chief engineer, Frank S. Austin.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 62 hydrants; pipe 8½ miles, 4 to 12 in dia; 65 valves; pressure, domestic 85, fire 105 pounds; waterworks owned by company. Pres of com, C. L. Goodhue; supt, D. Gilderson.

Braintree, Norfolk Co., population 5,000; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 hook and ladder trucks, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,000 ft, rubber good 500 ft, leather good 400 ft; value of fire department equipment \$4,500; value of buildings occupied \$5,000; total ann expenses of department \$2,100; total membership 78, paid full time; bell alarm. Chief engineer, F. O. Whitmarsh.

WATER SUPPLY—Source, Little Pond; system, pumping to standpipe; standpipe cap 525,000 gals; pumping engines, dy cap 1,250,000 gals average; 155 hydrants; pipe 24 miles, 4 to 12 in dia; 180 valves; 860 taps; pressure 65 to 110 pounds; waterworks owned by town; cost to construct \$160,000; to date \$237,000; int on bonds 4 per cent; ann expenses \$4,500. Pres of com, James T. Stevens; supt, Wm. R. Maybury.

Bridgewater, Plymouth Co., population 4,249; buildings, wood. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, good 2,500 ft; value of fire

department equipment \$9,000; value of buildings occupied \$1,500; electric bell alarm. Chief engineer, Darius C. Ford.

WATER SUPPLY—(including East Bridgewater) Source, 10 wells (2 driven); system, pumping to standpipe and direct; standpipe cap 278,000 gals; 2 pumping engines, dy cap 2,000,000 gals each; 70 hydrants, Ludlow; pipe 27 miles, 4 to 10 in dia; 50 valves; pressure, domestic 90, fire if necessary 250 pounds; 520 taps; waterworks owned by company; cost to construct \$150,000, to date \$175,000; ann expenses \$2,500; int on bonds 5 per cent. Pres of com, B. W. Harris; supt, G. M. Kelth.

Brimfield, Hampden Co., population 1,066; fire area about 2 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—hook and extension ladder, 2 dozen pails; value of fire department equipment \$20.

WATER SUPPLY—Source, wells and private aqueducts. Town clerk, Geo. M. Hitchcock.

Brookton, Plymouth Co., population 32,000; fire area 14,000 acres; mercantile buildings, brick and wood, 4 and 5 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 1 hand engine, 3 chemical engines on wheels, 6 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 3 hose carriages, all kinds, 6 hose wagons; hose, cotton good 10,000 ft, poor 1,000 ft; 28 horses, value \$6,500; value of fire department equipment \$40,000; value of buildings occupied \$45,000; total ann expenses of department \$42,000; total membership 133, paid full time 28, paid part time 105; Gamewell alarm; 45 street boxes. Chief engineer, Harry L. Martin.

WATER SUPPLY—Source, Salisbury brook; system, pumping to standpipe; reservoir cap 330,000, 000 gals; standpipe cap 1,300,000 gals; pumping engines, dy cap 3,000,000 gals; 420 hydrants; pipe about 45 miles, 24 to 6 in dia; 376 valves; 3,500 taps; pressure 18 to 70 pounds; waterworks owned by city; original cost to construct \$582,000; cost to date \$612,000; ann expenses \$8,500. Chairman of com, E. H. Reynolds; supt, Horace Kugman.

Brookfield, Worcester Co., population 3,352; fire area 25 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 2 hose carriages; hose, cotton good 1,200 ft; total ann expenses of department \$1,500; value of buildings occupied \$1,500; value of fire department equipment \$1,000; total membership 77, volunteers; bell and whistle alarm; 2 fire companies. Chief engineer, Geo. N. Hill.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 3,000,000 gals; 32 hydrants; pipe 5 miles, 6 to 12 in dia; 6 gates; taps 80; pressure, domestic 70 pounds, fire 70 to 100 lbs; works owned by town; construction expenses to date \$35,000. Supt, C. L. Visard.

Brookline, Norfolk Co., population 12,103; fire area 4,000 acres; mercantile buildings, wood and brick, 3 stories; private, wood and stone, 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose wagons, 1 supply wagon, 2 hose reels, 1 combination hose wagon and chemical, 3 hose punge; hose, cotton good 7,800 ft, inferior 450 ft; 10 horses, value \$2,800; value of fire department equipment \$10,000; total ann expenses of department \$17,000; total membership 58, paid full time 11, paid part time 48, 2 call men; Gamewell alarm; 29 street boxes; 2 engine companies, 1 hook and ladder company, 3 hose companies. Chief engineer, Geo. H. Johnson.*

WATER SUPPLY—Source, filtering galleries and driven wells on bank of Charles river; system, direct pumping, surplus to reservoir; reservoir cap 6,051,000 gals; a new covered reservoir of 1,200,000 gals; standpipe cap 440,610 gals; 4 pumping engines, dy cap 8,500,000 gals; 330 hydrants; pipe 57 miles, 8 to 24 in dia; pressure 25 to 100 pounds; waterworks owned by town; cost to construct \$879,858.93; cost to Feb. 15th 1893 \$1,000,349; ann expenses \$16,000. Chairman of com, Wm. K. Melcher; supt, Fayette F. Forbes.

Buckland, Franklin Co. (see Shelburne Falls.)

Cambridge, Middlesex Co., population 80,000; fire area 4,315 acres; mercantile buildings, brick,

3 to 6 stories; private, wood, 2 to 4 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines and 1 reserve, 1 chemical engine on wheels, 17 chemical extinguishers, 2 hook and ladder trucks (1 reserve), 1 aerial truck, 10 hose carriages, 4 hose wagons, 5 supply wagons, 3 hose punge, 3 chiefs' wagons; hose, cotton good 11,750 ft, rubber good 500 ft; 28 horses, value \$5,600; value of fire department equipment \$62,724; value of buildings occupied \$150,000; total ann expenses of department \$61,827; total membership 107, paid full time 33, paid part time 74; Gamewell alarm; 89 street boxes, private 11. Chief engineer, Thomas J. Casey.

WATER SUPPLY—Source, Fresh Pond in Cambridge, and Stony brook in Weston; system, gravity from Stony brook to receiving basin, pumping to reservoir and standpipe; cap 5,000,000 gals; pumping engines, dy cap 23,000,000 gals; 804 hydrants; pipe 1204 miles, 2 to 38 in dia; 1,368 valves; 11,769 taps; galvanized wrought iron service pipe; pressure, domestic 30 to 50, fire same pounds; waterworks owned by city; cost of construction to Dec. 1st 1893, \$3,370,674.96. Pres of Board of waterworks, J. M. W. Hall; supt, Hiram Nevons. (A site has been procured for a large reservoir which will probably be constructed, capacity from 40,000,000 to 50,000,000 gallons.)

Campello, Plymouth Co. (see Brookton.)

Canton, Norfolk Co., population 4,600; fire area 1,200 acres; buildings, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 3 hose wagons; hose, cotton good 4,000 ft, inferior 250 ft; value of fire department equipment \$10,300; value of 3 buildings occupied \$11,000; total ann expenses of department \$2,600; total membership 70, volunteers; bell alarm; 4 fire companies. Chief engineer, F. P. Driscoll.

WATER SUPPLY—Source, well 40 ft in dia and 28 ft in depth; system, pumping to standpipe; cap of standpipe 468,000 gals; steam pumping engines, cap of pumps per day 2,000,000 gals; 140 hydrants; 74 valves; pipe 15 miles; pressure 45 to 98 pounds; waterworks owned by town; cost to construct \$32,000; ann expenses \$3,600; int on bonds 4 per cent. Supt, R. Bird.*

Chelmsford, Middlesex Co., population 2,700; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. No organized fire department; 1 hook and ladder truck, other apparatus, 1 force pump and buckets; hose, cotton good 200 ft. Fire Warden, F. E. Nason.

WATER SUPPLY—Source, from several mills; system, pumping direct; reservoir cap 30,000 gals; pumping engines, cap per minute 500 gals; 10 hydrants; pipe 3,000 ft, 4 to 6 in dia; 40 taps; pressure, domestic 30, fire 120 pounds; waterworks owned by city and companies jointly; cost of construction to date \$8,000.

Chelsea, Suffolk Co., population 29,000; fire area 1,400 acres; mercantile buildings, brick and stone, 4 and 5 stories; private, brick and wood, 3 to 5 stories; wooden roofs not permitted in business center; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds, 4 supply wagons; hose, cotton good 8,300 ft, rubber good 600 ft; 14 horses, value \$4,200; value of fire department equipment \$55,000; value of buildings occupied \$74,250; total ann expenses of department \$31,280; total membership 78, paid full time 14, paid part time 64; Gamewell alarm; 37 street boxes. Chief engineer, Henry A. Spencer.

WATER SUPPLY—Source, Mystic lake; system, pumping to reservoir, cap 19,000,000 gals; pumping engines, dy cap 15,000,000 gals; 187 hydrants; pipe 33½ miles, 3 to 16 in dia; 342 valves; 5,496 taps; pressure, domestic 38, fire 98 pounds; works owned by city; cost to construct \$420,000; ann expenses \$22,000. Supt, C. Lomlard.

Cheshire, Berkshire Co., population 1,308; fire area 1 mile; mercantile buildings, wood, 2 stories; private, wood, 1½ and 2 stories. Fire department—500 ft hose.

WATER SUPPLY—Source, brooks; system, gravity; 1 reservoir; 17 hydrants; pipe 4 miles, 3 to 8:

in dia; 8 valves; pressure 125 to 150 pounds; waterworks owned by company; cost to construct \$17,000; ann expenses \$100. Supt. H. A. Northrop.

Chilcopee, Hampden Co., (includes Chilcopee Falls and Willimansett) population 14,050; fire area 3,800 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 6 chemical extinguishers, 2 hook and ladder trucks, 7 hose carriages, all kinds; hose, cotton good 2,000 ft, inferior 1,000 ft; 2 hired horses, value \$300; value of fire department equipment \$10,000; value of buildings occupied \$21,000; total ann expenses of department \$12,000; total membership 133, paid full time 10, paid part time 122; Gamewell alarm; 18 street boxes. Chief engineer, Thomas W. Blasdale.

WATER SUPPLY—Source, brooks and springs, located in Springfield and Chilcopee; system, two gravity, 1 pumping to standpipe; standpipe cap 1,066,346 gals; 2 pumping engines, dy cap 2,500,000 gals each; 116 hydrants; pipe 32 miles, 2 to 20 in dia; pressure, domestic 20 to 90, fire 33 to 90 pounds; waterworks owned by city; cost to construct \$313,023.52. Supt. Clarence A. Bullens.

Chilcopee Falls, Hampden Co. (See Chilcopee.)

Clinton, Worcester Co., population 11,000; fire area 6,500 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 9,000 ft; 4 horses, value \$1,000; value of fire department equipment \$6,000; value of buildings occupied \$8,000; total ann expenses of department \$7,000; total membership 74, paid full time 2, volunteer members 72; telegraph alarm; 17 street boxes. Chief engineer, H. H. Lowe.

WATER SUPPLY—Source, springs and streams; system, gravity; reservoirs cap 100,000,000 gals; 1 impounding, 2 storage and 1 distributing; dy cap 6,000,000 gals; 200 hydrants, 55 private; pipe 25 miles, 4 to 16 in dia; pressure, domestic 80, fire 100 pounds; waterworks owned by city; cost to construct \$275,000; ann expenses \$4,000; int on bonds 4 per cent. Supt. Thomas Burns.

Cochituate, Middlesex Co., population 2,000; mercantile buildings, wood, 2½ stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, leather good 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 40, volunteers; Stevens alarm; 9 street boxes; 1 hook and ladder company, 1 hose company. Chief engineer, Ralph Kent.

WATER SUPPLY—Source, Snake brook; system, gravity and direct pumping for fire; impounding reservoir, cap 18,000,000 gals; Amoskeg rotary pump; 34 hydrants; pipe 6 miles, 4, 6, 8 and 10 in dia; 18 valves; pressure, domestic 32, fire 85 pounds; waterworks owned by town; cost to construct \$30,000; ann expenses \$1,800. Supt. Henry G. Dudley.

Cohasset, Norfolk Co., population 2,448; buildings, stone and wood, 2, 3 and 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage, 1 hose reel, 1 hose wagon; hose, cotton good 2,500 ft, rubber fair 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,800; total ann expenses \$800; total membership 49, volunteers. Chief engineer, E. E. Wentworth.

WATER SUPPLY—Source, driven wells; system, pumping to reservoir; reservoir cap 1,500,000 gals; pumping engines, dy cap 750,000 gals; 40 hydrants; pipe 7 miles, 4 to 12 in dia; 50 valves; pressure 80 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$2,300; int on bonds 4 per cent. Supt. D. N. Tower.

Coleman, Franklin Co., population 1,671; fire area 7 miles sq; mercantile buildings, brick and wood, 1½ and 2 stories; wooden roofs permitted.

WATER SUPPLY—Source, wells and springs.

Concord, Middlesex Co., population 4,427; fire area 15,253 acres; mercantile buildings, wood, 2 to 6 stories, shingle and slate; private, wood, 2 and 3

stories; wooden roofs permitted; causes of fire investigated. Fire department—2 hand engines, 2 hook and ladder trucks, 4 hose carriages, 1 hose wagon; hose, cotton rubber lined good 3,850 ft, linen poor 1,000 ft; horses hired; value of fire department equipment \$4,850; value of buildings occupied \$3,000; total ann expenses of department \$2,600; total membership 77, paid full time; bell alarm. Chief engineer, Frank W. Holden.

WATER SUPPLY—Source, Sandy Pond; system, gravity; reservoir cap 2,500,000 gals; 123 hydrants; pipe 35½ miles, 2 to 12 in dia; 111 valves; pressure 40 pounds; waterworks owned by town; cost to construct to date \$154,000; ann expenses \$1,000. Supt. John O. Haskell.

Conway, Franklin Co., population 1,451. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 400 ft, linen good 200 ft, leather good 200 ft, inferior 500 ft; total membership 30, all volunteers. Chief engineer, C. A. Smith.

WATER SUPPLY—Source, river.

Cottage City, Dukes Co., population 1,080; fire area 200 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical engines on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 3,000 ft, inferior 500 ft; total ann expenses of department \$3,080; total membership 71, paid full time 1, volunteer members 70; electric bell alarm; 8 street boxes; 5 fire companies, 2 engine companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Walter S. Howland.

WATER SUPPLY—Source, springs; system, pumping to standpipe; cap 225,000 gals; pumping engines, dy cap 2,000,000 gals; 64 hydrants; pipe 14 miles, 4 to 12 in dia; 78 valves; quality of water good; pressure 65 to 70 pounds; works owned by company; cost to construct \$140,000. Supt. H. J. Green.

Dalton, Berkshire Co., population 3,250; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—7 hose carriage, all kinds; mills have hose companies with from 500 to 1,000 ft of hose each; whistle and bell alarm. Chief engineer, M. Glendon.

WATER SUPPLY—Source, spring; system, gravity; reservoir cap 4,500,000 gals; 73 hydrants; pipe 17 miles, 12, 10, 8, 4 in dia; 34 valves; quality of water A; pressure 140 to 150 pounds; works owned by town; cost to construct \$64,000; ann expenses \$600; int on bonds \$2,000. Supt. M. Glendon.

Danvers, Essex Co., population 8,000; fire area 22 miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 5 hose wagons; hose, cotton good 9,000 ft, rubber good 250 ft, inferior 250 ft, leather good 250 ft; value of fire department equipment \$8,500; value of buildings occupied \$8,500; total ann expenses of department \$5,059; total membership 87, volunteer members 87; bell and whistle alarm. Chief engineer, C. F. Aiken.

WATER SUPPLY—Source, Middleton pond; system, pumping to reservoir; reservoir cap 5,000,000 gals; pumping engines, dy cap 2,000,000 gals; 222 hydrants; pipe 41 miles, 4 to 14 in dia; 208 valves; pressure, domestic 80 pounds, fire same; waterworks owned by town; cost to construct about \$261,283.50, to date \$252,822; ann expenses \$7,564; water board chosen annually. H. Newhall, registrar.

Dedham, Norfolk Co., population 7,123; mercantile buildings, mostly frame, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 hand engines, 12 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, all kinds, 1 hose wagon, 1 supply wagon, 12 steam couplings; hose, cotton rubber lined good 4,500 ft; rubber inferior 1,000 ft; value of fire department equipment about \$8,000; value of buildings occupied \$15,000; total ann expenses of department \$4,500; total membership 110, all volunteers; bell alarm. Chief engineer, William C. Williams.

WATER SUPPLY—Source, wells and cisterns; system, gravity and pumping to standpipe; 2

standpipes, cap 735,000 gals; pumping engines, dy cap 3,000,000 gals; 131 hydrants; pipe 25 miles, 4 to 10 in dia; 167 valves; 20 meters; pressure 40 to 60 pounds; Edson pressure recording gauge; waterworks owned by company; original cost to construct \$80,000; cost to date \$204,000. Supt, Geo. T. Staples.

Deerfield, Franklin Co., population 2,910; fire area 2 miles; mercantile buildings, wood, 2 1-2 stories; private, wood, 2 1-2 stories; wooden roofs are permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$200; value of buildings occupied \$400; total ann expenses of department \$175; total membership 20; bell alarm. Foreman, R. W. Childs.

WATER SUPPLY—Source, wells and springs.

Douglasse, Worcester Co., population 1,908; mercantile buildings, wood, 1 and 2 stories. Fire department—1 engine; volunteer company. Chief, A. F. Jones.*

WATER SUPPLY—Source, wells and cisterns.

Dracut, Middlesex Co., population 1,967; mercantile buildings, brick, stone and wood, 2 and 2 1-2 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 1,000 ft, leather inferior 400 ft, linen good 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$500; total membership 30, volunteer members 20. Chief engineer, George W. Ducey.

WATER SUPPLY—Source, brooks and wells.

Dudley, Worcester Co., population 2,742. (See Webster.)

Duxbury, Plymouth Co., population 1,908; fire area 14,000 acres; buildings, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; no organized fire department.

WATER SUPPLY—Source, wells and cisterns. Town clerk, Geo. H. Sterns.

East Bridgewater, Plymouth Co., population 2,911; buildings, wood, 1 1-2 and 2 stories; wooden roofs permitted. Fire department—2 hook and ladder trucks, 4 hand hose reels; hose, cotton good 2,500 ft; value of fire department equipment \$2,200; total membership 60, volunteers; bell alarm. Chief engineer, Minot S. Curtis.

WATER SUPPLY—See Bridgewater.

Easthampton, Hampshire Co., population 4,500; buildings, brick, 3 stories; tin roofs; private, wood, 2 stories. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,300 ft, inferior 250 ft; value of fire department equipment \$600; value of buildings occupied \$5,600; total ann expenses of department \$600; total membership 45, all volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, R. Thomas Sawyer.

WATER SUPPLY—Source, Parsons brook; system, direct pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 500,000 gals; 60 hydrants; pipe 6 miles; pressure, domestic 75, fire 100 pounds; cost to construct \$40,000; ann expenses \$1,200. Pres, H. G. Knight; supt, G. L. Manchester.

Easton, Bristol Co., population 4,498; mercantile buildings, wood and stone, 2 stories; private, wood and stone, 2 stories; wooden roofs permitted. No organized fire department—1 hand engine, 10 or 15 chemical extinguishers, 2 hose carriages; hose, linen good 2,000 ft, rubber good 1,000 ft; bell alarm.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 240,000 gals; pumping engines, dy cap 1,500,000 gals; 80 hydrants; pipe 7 miles, 10 to 4 in dia; 130 valves; 50 meters; pressure 60 to 90 pounds; cost to construct to date \$80,000. Pres, F. L. Ames.*

East Weymouth, Norfolk Co. (see Weymouth.)

Edgartown, Dukes Co., population 1,186; fire area 1 mile; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 1 hose carriage; hose, cotton good 500 ft, leather good 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,500; volunteer members; bell alarm; 1

fire company. Chief engineer, Richard E. Norton.*

WATER SUPPLY—Source, bay, 3 wells of 50 barrels cap each. Town clerk, Thomas Mellin.

Enfield, Hampshire Co., population 932. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 250 ft.*

WATER SUPPLY—Source, springs. Town clerk, Charles Richards.*

Essex, Essex Co., population 1,712; fire area 7,841 acres; buildings, wood, 2 stories; shingle roofs. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; slamsse couplings used; hose, cotton good 1,100 ft; value of fire department equipment \$4,500; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 80, paid full time; bell alarm. Chief engineer, Luther E. Burnham.

WATER SUPPLY—Source, river and wells. Town clerk, N. Burnham.

Everett, Middlesex Co., population 17,000; fire area 2,300 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 3,200 ft; 5 horses, value \$1,200; value of fire department equipment \$16,000; value of buildings occupied \$12,000; total ann expenses of department \$6,500; total membership 28, paid full time 3, paid part time 23; electric fire alarm; street boxes 26. Chief engineer, Columbus Corey.

WATER SUPPLY—Source, Mystic department. Boston; standpipe cap 135,000 gals; pumping engines, dy cap 600,000 gals; hydrants 201; pipe 27 miles, 4 to 16 in dia; 381 valves; 2,970 taps; pressure 40 to 74 pounds; waterworks owned by city; ann expenses \$34,000. Supt, John Loring.

Fairhaven, Bristol Co., population 2,919; fire area 6,000 acres; mercantile buildings, wood, brick and stone, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$750; total membership 27, all paid full time; bell alarm. Chief engineer, John W. L. Kempton.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe, cap 40,000 gals; 2 pumps, dy cap 3,000,000 gals; hydrants 86; pipe 14 miles, 6 to 12 in dia; taps 109; pressure, domestic 70 pounds; works owned by company. Pres, Jas. K. Nye.

Fall River, Bristol Co., population 90,000; fire area 30 sq miles; mercantile buildings, stone and brick, 3 and 4 stories; private, wood, 2 1/2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—5 steam fire engines, 14 chemical extinguishers, 2 hook and ladder trucks, 1 chemical engine, 2 aerial trucks, 3 hose carriages, 5 hose wagons; hose, cotton good 13,900 ft, inferior 4,700 ft; 37 horses, value \$7,400; value of fire department equipment \$57,500; value of buildings occupied \$210,000; total ann expenses of department \$80,000; membership 155, paid full time 44, paid part time 111; Gamewell alarm; street boxes 128, of which 58 are private. Chief engineer, W. C. Davol, Jr.

WATER SUPPLY—Source, Watuppa lake; system, pumping to tanks; and standpipe, cap 350,000 gals; tank cap 1,110,000 gals; pumping engines, dy cap 10,000,000 gals; hydrants 702; pipe 72 miles 6 to 24 in dia; 714 valves; pressure, domestic 25 to 129 pounds, fire same; Edson pressure recording gauge; works owned by city; cost to construct to date \$2,100,504.48; ann expenses \$44,798.43. Supt, Patrick Kieran. (Have ordered a Davidson 8,000,000 gals duplex pump will expend \$25,000 for extensions.)

Falmouth, Barnstable Co., population 2,567; fire area 2,300 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; no organized fire department.

WATER SUPPLY—Source, private wells and springs. Village clerk, Wm. H. Hewins.

Fitchburg, Worcester Co., population 28,000; fire area 650 acres; mercantile buildings, brick, 4

and 5 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 7 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, in reserve, 3 hose wagons, 1 supply wagon, 1 combination hose and ladder wagon; hose, cotton good 7,000 ft, inferior 3,100 ft; 10 horses, value \$2,000; value of fire department equipment \$33,000; value of buildings occupied \$41,000; total ann expenses of department \$19,732; total membership 72, paid full time 5, paid part time 67; electric alarm; street boxes 48. Chief engineer, Geo. H. Kendall.

WATER SUPPLY—Source, Scott and Falulah brooks; system, gravity; cap of reservoirs 691,000,000 gals; hydrants 359; pipe 55.35 miles, 2 to 30 in dia; 403 valves; taps 3,571; pressure 80 to 155 pounds; works owned by city; original cost to construct \$400,000; to date \$225,000; ann expenses \$43,751. Pres, S. D. Shelden; supt, Thos. C. Lovell.

Florence, Hampshire Co., fire area 1½ miles square; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 1,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$4,500; total ann expenses of department \$8,598; total membership 24, paid by year; bell alarm; 1 engine company, 2 hose companies. Asst engineer, A. W. Shumway; W. A. Bailey, chief, Northampton.*

WATER SUPPLY—(see Northampton.)

Foxborough, Norfolk Co., population 2,933; mercantile buildings, wood, 1 to 4 or 5 stories; private, wood, 1 or 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; hose, rubber good 2,400 ft, inferior 300 ft, cotton good 2,400 ft, inferior 400 ft; value of fire department equipment \$10,000; value of buildings occupied \$2,500; total ann expenses of department \$1,000; total membership 27, paid part time; electric alarm; street boxes 23. Chief engineer, J. W. Hayes.*

WATER SUPPLY—Source, driven wells; system, pumping to standpipe, cap 282,000 gals; pumping engines, dy cap 750,000 gals; hydrants 74; pipe 8.90 miles, 12 to 6 in dia; valves 75; taps 307; cement lined pipe; pressure 60, fire 110 pounds; works owned by village; cost to construct \$75,000; ann expenses \$1,750. Pres, E. P. Carpenter; supt, F. E. Greene.

Framingham, Middlesex Co., population 9,500; buildings, brick and wood, 2 stories. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 1 hose carriage, 3 hose wagons; hose, cotton good 8,500 ft, inferior 1,000 ft; 15 horses; value of fire department equipment \$23,000; value of buildings occupied \$8,000; ann expenses \$7,200; total membership 120, 60 paid part time; Gamewell alarm; 28 street boxes; 5 fire companies. Chief engineer, W. C. Wright.

WATER SUPPLY—(see South Framingham) 85 fire hydrants. Supt, A. E. Martin.

Franklin, Norfolk Co., population 4,600; fire area 2,500 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,500 ft, poor 300 ft; value of fire department equipment \$7,000; value of buildings occupied \$2,000; total ann expenses of department \$2,400; total membership 116, paid part time; bell alarm; 2 engine companies, 1 hook and ladder company, 2 hose companies; electric whistle alarm. Chief engineer, Lawrence E. Morrissey.

WATER SUPPLY—Source, 2 wells; system, pumping to tank; cap of tank 750,000 gals; pumping engines, dy cap 2,000,000 gals; 76 hydrants; pipe 9½ miles, 4 to 13 in dia; pressure 36 to 100 pounds; waterworks owned by company; cost to construct \$130,000; cost to date \$158,000; ann expenses \$9,000. Pres of com, J. G. Ray; supt, Wm. E. Nason.

Freetown, Bristol Co., population 1,417; fire area 560 acres; buildings, wood, 2 stories; dwellings, wood, 2 stories; no fireworks ordinance. Fire department—1 hand engine, 1 hand chemical

engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$1,100; value of buildings occupied \$5,000; total membership 30, volunteers; bell alarm. Chief engineer, R. H. Francis.*

WATER SUPPLY—Source, river and wells. Town clerk, P. A. Pierce.*

Gardner, Worcester Co., population 9,000; fire area 13,000 acres; mercantile buildings, wood, 2 to 4 stories; private, wood, 1½ to 3 stories; wooden roofs permitted. Fire department—2 hand engines, 2 hook and ladder trucks, 3 hose carriages, 1 hose wagon; hose, cotton good 7,000 ft, inferior 1,000 ft; value of fire department equipment \$8,500; value of buildings occupied \$18,000; total ann expenses of department \$6,050; total membership 87, volunteers; 2 hook and ladder companies, 4 hose companies; Gamewell alarm; 17 street boxes. The factories are equipped with hose and hose carts. Chief engineer, A. E. Walker.

WATER SUPPLY—Source, Crystal lake; system, pumping to reservoir and direct; reservoir cap 5,000,000 gals; 2 pumping engines, dy cap 4,000,000 gals; 85 hydrants; pipe 18 miles, 4 to 16 in dia; 64 valves; 930 taps; pressure 40 to 130 pounds; works owned by company. Supt, H. W. Conant.

Georgetown, Essex Co., population 2,200; buildings, brick and wood, 2½ stories; shingle and slate roofs; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,000 ft, rubber good 200 ft, inferior 200 ft; value of fire department equipment \$7,000; value of buildings occupied \$5,500; ann expenses of department \$1,000; total membership 125, volunteers. Chief engineer, T. F. Hill.

WATER SUPPLY—Source, 6 cisterns, 16 reservoirs, also 2 lakes of 200 acres each, and 10 streams. Town clerk, H. N. Harriman.

Gloucester, Essex Co., population 24,651; fire area 25 sq miles; mercantile buildings, brick, 3 stories; private, wood, 2½ and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 steam fire engines, 3 hand engines, 2 chemical engines on wheels, 5 chemical extinguishers, 3 hook and ladder trucks, 4 hose wagons, 2 supply wagons; hose, cotton good 8,000 ft, rubber good 2,000 ft, fair 4,000 ft, leather good 1,000 ft; 16 horses, value \$4,300; value of fire department equipment \$48,000; value of buildings occupied \$40,000; total ann expenses of department \$22,000; total membership 188, paid full time 9, call men 184; Gamewell alarm; 31 street boxes; 11 fire companies. Chief engineer, C. H. Merchant.

WATER SUPPLY—Source, Wallace's and Dyke's ponds; system, pump to reservoir 10,000,000 gals; pumping engines, dy cap 5,000,000 gals; 180 hydrants; pipe 35 miles; 40 meters; pressure 70 pounds; int on bonds 5 per cent. Supt, John W. Moran.

Grafton, Worcester Co., population 5,002; fire area 3,000 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft, linen good 300 ft, leather good 1,000 ft; value of fire department equipment \$6,000; value of 3 buildings occupied \$3,000; total ann expenses of department \$1,154; total membership 85, full paid; steam whistle alarm; 4 fire companies. Chief engineer, Alden M. Bigelow.

WATER SUPPLY—Source, springs; system, pumping to standpipe, cap 110,000 gals; pumping engines, dy cap 1,750,000 gals; 93 hydrants; pipe 10 miles, 4 to 10 in dia; 23 valves; pressure, domestic 75, fire 160 pounds; waterworks owned by company; cost to construct \$93,000; ann expenses \$2,500; int on bonds 5 per cent. Pres of com, C. W. McLellan; supt, Solon F. Smith.

Great Barrington, Berkshire Co., population 4,000; fire area 2 sq miles; buildings, brick and wood, 2 to 4 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 3,000 ft, inferior 450 ft; value of fire department equipment \$9,000; value of buildings occupied \$3,000; expenses for past year \$500; total membership 33, paid part time 6, volunteers 27; bell alarm. Chief engineer, L. C. Raifstanger.

WATER SUPPLY—Source, mountain stream; system, gravity, pumping to reservoir; cap one of

1,500,000 and 1,000,000 gals; pumping engines, dy cap 550,000 gals; 41 hydrants; pipe 6 miles, 6 to 4 in dia; filtration; 350 taps; stone, gravel and charcoal; pressure 40 to 60 pounds; waterworks owned by city; cost to construct \$75,000. Chairman, P. A. Russell; town clerk, Chas. J. Burget.*

Greenfield, Franklin Co., population 6,027, local census 1893; fire area 1,600 acres; mercantile buildings, brick, 3 and 4 stories; private, wood, 2½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, jumping net; hose, cotton good 4,300 ft, leather inferior 800 ft; value of fire department equipment \$3,500; value of buildings occupied \$6,000; total ann expenses of department \$1,500; total membership 70, paid full time 5, paid part time 65; bell alarm and connection between engine house and steam gong; 1 hook and ladder company, 3 hose companies. Chief engineer, Chas. L. Smith.

WATER SUPPLY—Source, Glen brook; system, gravity; reservoir cap 17,892,000 gals; 94 hydrants; pipe about 31 miles, 1 to 14 in dia; 103 valves; works owned by fire district; pressure 100 pounds; ann expenses \$1,500; cost to date \$140,000. Chairman, Chas. J. Day; supt, James Porter.

Groton, Middlesex Co., population 2,080; buildings, private, wood, 2 stories; State fireworks ordinance. Fire department—4 hand engines, 1 chemical engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton rubber lined 500 ft good, leather good 300 ft, poor 200 ft, linen good 200 ft; value of fire department equipment \$2,200; value of buildings occupied \$2,000; total ann expenses of department \$750; total membership 90, paid part time 60; bell alarm; 2 engine companies, 1 hook and ladder company. Chief engineer, H. W. Whiting.

WATER SUPPLY—Source, 8 cisterns, cap 35,000 gals.

Groveland, Essex Co., population 2,191; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 15 chemical extinguishers, 2 hose carriages, jumping net, arrow gun, ladders and fire escapes; hose, cotton good 1,500 ft, linen 800 ft; value of fire department equipment \$5,000; value of buildings occupied \$4,000; total membership 48, paid part time; bell alarm. Chief engineer, John W. Libby.

WATER SUPPLY—Source, pond and creek; 1 reservoir at South Groveland, 20 hydrants; pipe 24 miles; 20 gates. Town clerk, J. B. Ladd.

Hamover, Plymouth Co., population 2,093; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. No organized fire department.

WATER SUPPLY—Source, well. Clerk, E. Waterman.

Hardwick, Worcester Co., population 2,922; mercantile buildings, wood, 2 stories; dwellings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Chemical engine and hose owned by the factories. Chairman of selectmen, S. S. Dennis.

WATER SUPPLY—Source, private wells and cisterns.

Harvard, Worcester Co., population 1,095; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hook and ladder trucks and buckets.*

WATER SUPPLY—Source, wells and springs. Town clerk, A. Barnard.*

Hatfield, Hampshire Co., population 1,300; buildings, wood, 1 1/2 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 chemical engine on wheels. Chairman of selectmen, M. J. Ryan.

Haverhill, Essex Co., population 30,000; fire area 24 sq miles; mercantile buildings, brick and stone, 3 to 5 stories; private, wood, 2 and 3 stories; wooden roofs permitted. Fire department—4 steam fire engines, 2 hand engines, 2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages, 6 hose wagons, 3 hose sleighs, 1 combined chemical and protection wagon; hose, cotton good 10,500 ft, inferior 6,000 ft; 19 horses, value \$4,000; value

of fire department equipment \$12,500; value of 9 buildings occupied \$35,500; value of buildings occupied \$55,000; total ann expenses of department \$41,000; total membership 173, paid full time 16, paid part time 159; Gamewell alarm; 38 street boxes; 12 fire companies. Chief engineer, John B. Gordon.

WATER SUPPLY—Source, 4 ponds; system, gravity and pumping to standpipe, cap 770,000 gals; 2 pumping engines, dy cap 3,000,000 gals each; 199 hydrants; pipe 45.81 miles, 4 to 20 in dia; 375 valves; pressure 20 to 97 pounds; waterworks owned by city; cost to date \$228,809.30. Supt, Hy. W. Rogers.

Hingham, Plymouth Co., population 4,564; fire area 6 miles sq; buildings, 2½ stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton 4,000 ft, rubber good 1,000 ft; value of fire department equipment \$5,000; value of 5 buildings occupied \$7,500; total ann expenses of department \$3,000; total membership 75, volunteers; Gamewell alarm; 10 street boxes. Chief engineer, Geo. Cushing.

WATER SUPPLY—Source, Accord and Felling Mill ponds; system, gravity and pumping to standpipe and direct; standpipe cap 395,000 gals; pumping engines, dy cap 1,000,000 gals; 498 hydrants; pipe 48 miles, 4 to 16 in dia; 193 valves; pressure 50 pounds; waterworks owned by company; cost to construct \$250,000; ann expenses \$5,000; int on bonds 6 per cent. Pres of com, E. L. Ripley; supt, Wm. H. Thomas.

Hinsdale, Berkshire Co., population 1,850; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hose carriages, all kinds; hose, cotton good rubber lined 500 ft, lined good 300 ft; total membership 14, volunteers; 2 fire companies. Foremen, Peter Bartlett, John O'Leary.

WATER SUPPLY—Source, brook and springs; system, gravity; reservoir cap 36,000,000 gals; 43 hydrants; pipe 4 miles, 10 to 4 in dia; 25 valves; pressure 75 to 152 pounds; cost to construct \$30,000; ann expenses \$1,500; int on bonds 4 per cent.

Holbrook, Norfolk Co., population 2,346; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 2,400 ft, rubber good 800 ft; total ann expenses of department \$1,000; total membership 40; bell alarm. Chief engineer, E. E. White.

WATER SUPPLY—Source, natural pond; system, pumping to standpipe; standpipe cap 500,000 gals; pumping engines, dy cap 4,000,000 gals; 73 hydrants; pipe 10½ miles, 14 to 4 in dia; 61 valves; 370 taps; pressure, domestic 78, fire 78 pounds; waterworks owned by town; cost to construct \$100,000; ann expenses \$2,500. Supt, Frank G. Morse.

Holliston, Middlesex Co., population 3,200; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 stories. Fire department—2 steam fire engines, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 3,200 ft, inferior 1,400; value of fire department equipment \$9,000; value of buildings occupied \$4,000; total ann expenses of department \$2,800; total membership 56, paid part time; bell alarm. Chief engineer, John O'Brien.

WATER SUPPLY—Source, spring and wells; system, pump to standpipe, cap 318,000 gals; pumping engines, dy cap 1,000,000 gals; 44 hydrants; pipe 6 miles, 3 to 6 in dia; 80 valves; 100 taps; quality of water good; pressure 90 pounds; works owned by company. Supt, John D. Shippee.*

Holyoke, Hampden Co., population 41,000; fire area 19,200 acres; mercantile buildings, brick, stone and wood, 3 to 5 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—6 steam fire engines, 16 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 1 hose carriage, 7 hose wagons, other apparatus, 5 supply wagons; hose, cotton good 15,000 ft, inferior 1,000 ft; 26 horses, value \$6,000; value of fire department equipment \$75,000; value of buildings occupied \$115,000; total membership

192, paid full time 20, paid part time 172; Gamewell alarm; 77 street boxes. Chief engineer, John T. Lynch. (1 chemical engine and 3,000 ft of cotton hose is contemplated.)

WATER SUPPLY—Source, Wrights and Ashley's ponds; system, gravity; reservoirs cap. 1,300,000, 000 gals; 364 hydrants; pipe 54 miles, 4 to 20 in dia; 434 valves; taps 2,974; pressure 45 to 100 pounds; waterworks owned by city; original cost to construct \$250,000; expenses of construction to date \$681,217.55; int paid on bonds \$15,000. Chairman of com, M. P. Conway; supt, J. D. Hardy; registrar, J. C. Sullivan.

Hopkinton, Middlesex Co., population 4,000; buildings, wood, 1½ to 3 stories; wooden roofs permitted. Fire department—3 hand engines, 1 chemical extinguisher, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 5,200 ft, rubber 200 ft, leather good 700 ft; value of fire department equipment \$3,525; total ann expenses of department \$1,800; total membership 127; bell and whistle alarm. Chief engineer, R. L. Frail.

WATER SUPPLY—Source, 4 artesian wells; system, pumping to standpipe; cap 250,000 gals; pumping engines, dy cap 75,000 gals; 34 hydrants; pipe 4 miles; 12 meters; pressure 80 pounds; waterworks owned by town; cost to construct \$35,000; ann expenses \$2,400; int on bonds 4 per cent. Pres, Henry McFarland.*

Housatonic, Berkshire Co., population 1,200; mercantile buildings, wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 300 ft. Linen 100 ft; membership 45, volunteers. Chief engineer, F. W. Adams.

WATER SUPPLY—Source, Long Lake; system, gravity; reservoir 100 acres, 6 ft over intake; 16 hydrants; pipe 6½ miles, 8, 10, 12 and 14 in dia; 3 valves; pressure, domestic 40 to 60, fire 65 pounds; works owned by company; cost to construct \$63,000; ann expenses \$2,650. Pres, M. J. Drummond; supt, T. Z. Potter.

Hubbardston, Worcester Co., population 1,346; buildings, wood, 1 and 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 200 ft, rubber good 200 ft; value of fire department equipment \$500; value of 1 building occupied \$400; total ann expenses of department \$325; total membership 45, volunteers; bell and whistle alarm. Foreman, H. W. Howe.

WATER SUPPLY—Source, wells.

Hudson, Middlesex Co., population 4,677; mercantile buildings, wood and brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 3 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton rubber lined good 3,500 ft, poor 500 ft; value of fire department equipment \$8,500; value of 3 buildings occupied \$8,500; total ann expenses of department \$8,668; total membership 72, paid; Stevens alarm system; 10 street boxes, also bell and whistle. Chief engineer, F. W. Trowbridge.

WATER SUPPLY—Source, Gates ponds; system, gravity; 117 hydrants; pipe 15½ miles, 4 to 18 in dia; 191 valves; pressure 25 to 55 pounds; waterworks owned by town; cost to construct to date \$108,681, total cost to date \$112,491; ann expenses \$500; int on bonds 4 per cent. Chairman of com, E. M. Stowe; supt, D. W. Stratton.

Hull, Plymouth Co., population 989; fire area 7 miles; buildings, wood, 2 stories; wooden roofs permitted; general fireworks ordinance. Fire department—4 hose carriages, all kinds, 8 ladders and hooks; hose, cotton good 2,600 ft, inferior 2,600 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$900; total membership 40; bell alarm; 3 fire companies. Chief engineer, Alonzo Mitchell.*

WATER SUPPLY—Hingham Water Co. (see Hingham); 45 hydrants; pipe 8 miles; pressure 65 pounds. Town clerk, James Jeffrey.*

Hyde Park, Norfolk Co., population 11,200; fire area 2,500 acres; mercantile buildings, wood, 2 stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage, 2 hose wagons; hose, cotton good 3,500 ft, poor 1,500 ft,

rubber good 300 ft; 9 horses hired; value of fire department equipment \$13,000; value of buildings occupied \$6,000; total ann expenses of department \$4,700; total membership 42, paid full time 1, paid part time 41, volunteers 7; Stevens alarm; 18 street boxes; 1 engine company, 1 hook and ladder company, 8 hose companies. Chief engineer, F. A. Sweet.

WATER SUPPLY—Source, driven wells, surface water; system, pumping to reservoir; reservoir cap 1,500,000 gals; pumping engines, dy cap 2,500, 000 gals; 105 hydrants; pipe 27,022 miles, 4 to 14 in dia; 100 meters; pressure 80 pounds; waterworks owned by company; cost to construct \$150,000. Pres of com, Robert Bleakie; supt, Albert S. Adams.

Ipswich, Essex Co., population 4,700; fire area 20,000 acres; mercantile buildings, wood, with slate roofs, 2 stories; private, wood, 2 stories. Fire department—3 hand engines, 1 reserve, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 2,800 ft, leather good 500 ft; value of fire department equipment \$6,000; value of buildings occupied \$4,000; total ann expenses of department \$1,600; total membership 163; bell alarm; 3 engine companies, 1 hook and ladder company. Chief engineer, Nathaniel Archer.

WATER SUPPLY—Source, river, 5 reservoirs.

Kingston, Plymouth Co., population 1,650; fire area whole line of pipe; buildings, wood, 2 1-2 stories; wooden roofs permitted. Fire department—3 hose carriages; hose, cotton good 2,000 ft rubber good 200 ft; value of buildings occupied \$2,000; total membership 50, paid part time; bell alarm; 3 hose companies. Chief engineer, J. Delano, Jr.

WATER SUPPLY—Source, well; system, direct pumping, surplus to reservoir; reservoir cap 265, 000 gals; pump, dy cap 323,320 gals; 58 hydrants; pipe 9 miles; pressure, domestic 65, fire 90 pounds; waterworks owned by town; cost to construct \$40,000; ann expenses \$800; int on bonds 4 per cent. Supt, Green Evans.*

Lakeview (see Worcester).

Lancaster, Worcester Co., population 2,201; buildings, wood and brick, 1½ and 2 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 8 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 3,500 ft; value of buildings occupied \$8,500; total ann expenses of department \$900; total membership 39, paid part time; 1 hook and ladder company, 3 hose companies, 1 chemical engine company. Chief engineer, Wm. A. Kilbourn.

WATER SUPPLY—Town supplied by Clinton waterworks; system, gravity; reservoir cap 60,000, 000 gals; 28 hydrants; pipe 8 miles; pressure 110 pounds; works owned by town; cost to construct \$40,000; int on bonds 5 per cent. Supt, J. F. Philbin.

Lanesborough, Berkshire Co., population 1,018; mercantile buildings, wood, 2 stories; shingle roofs are principally used; dwellings, wood, 1-1-2 and 2 stories; no fireworks ordinance. No organized fire department.

WATER SUPPLY—Source, springs. Town clerk, Frank Sturgis.

Lawrence, Essex Co., population 48,634; fire area 4,185 acres; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 and 3 stories; slate and gravel roofs; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 1 hand engine, 2 chemical engines on wheels, 3 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 4 hose carriages, 6 hose wagons, 4 pumps and 3 engineers wagons; hose cotton good 10,000 ft, inferior 4,000 ft, leather 200 ft; 22 horses, value \$4,900; value of fire department equipment \$48,000; value of buildings occupied \$58,000; total ann expenses of department \$85,140; total membership 98, paid full time 19, paid part time 79; Gamewell alarm; 72 street boxes. Chief engineer, Melvin Beal.

WATER SUPPLY—Source, Merrimac river; system, pumping to reservoir, cap 40,000,000 gals; pumping engines, dy cap 10,060,000 gals; 531 hydrants; pipe 63.68 miles, 6 to 30 in dia; valves 758; 5,128 taps; pressure 70 pounds; Edison pressure recording gauge; works owned by city; cost to construct \$1,300,000; cost to date \$2,123,906.87; ann expenses \$29,298.76. Supt, A. H. Salisbury.

Lee, Berkshire Co., population 3,765; fire area

6,000 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 steam fire engine, 2 hand engine, 1 hook and ladder truck, 5 hose carriages, siamese couplings used; hose, cotton good 200 ft, rubber good 1,800 ft, leather good 500 ft; value of fire department equipment \$6,000; value of buildings occupied \$2,000; total ann expenses of department \$800; total membership 150, all volunteers; bell alarm. Chief engineer, F. M. Pease.

WATER SUPPLY—Source, mountain stream; system, gravity; 2 reservoirs, cap 40,000,000 gals; 24 hydrants; pipe $\frac{3}{4}$ miles, 10 to 3 in dia; pressure, domestic 90, fire 80 pounds; cost to construct \$41,750; to date \$55,000; ann expenses \$1,300; int on bonds \$1,000. Pres and supt, J. C. Chaffee.

Leicester, Worcester Co., population 3,120; fire area 15,000 acres; buildings, private, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 2 chemical engines on wheels, 4 chemical extinguishers, 3 hose wagons, 1 hose reel, life-saving apparatus; hose, cotton good 3,600 ft; total membership 68, paid part time; bell, whistle and telephone alarm; 4 fire companies. Chief engineer, H. E. Sarrent.

WATER SUPPLY—Source, springs and wells; system, gravity to standpipe; cap of standpipe 200,000 gals; 27 hydrants; 56 valves; pressure 40 to 100 pounds; 7.3-4 miles of pipe, 13 to 4 in dia; 27 meters; 150 taps; cost to construct \$35,000; int on bonds 4 per cent. works owned by village; ann expenses \$300. Chairman of com and supt, H. O. Smith.

Lemox, Berkshire Co., population 2,889; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks, ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 800 ft, inferior 200 ft; value of fire department equipment \$400.

WATER SUPPLY—Source, springs; system, gravity and pump to reservoir; storage reservoir cap 12,000,000 gals; distributing cap 1,500,000 gals; pumping engines, dy cap 1,000,000 gals; 18 hydrants; pipe $1\frac{1}{2}$ miles, 10 to 2 in dia; 200 valves; 200 taps; pressure 70 pounds; waterworks owned by company; original cost to construct \$87,000; ann expenses \$2,000. Pres, Thomas Post; supt, Isaac J. Newton.

Leominster, Worcester Co., population 8,500; mercantile buildings, brick and wood, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 reservoir, 8 chemical extinguishers, 2 hook and ladder truck, 4 hose carriages, 1 combination wagon, 3 hose sleighs; hose, cotton good 5,000 ft, leather good 250 ft, good rubber 100 ft; value of fire department equipment \$11,350; value of buildings occupied \$50,000; total expenses for year of 1893, \$5,420; total membership 78, paid full time; 3 fire companies; Stevens alarm; 24 street boxes. Chief engineer, P. H. Killelea.

WATER SUPPLY—Source, Morse brook; system, gravity; 3 reservoirs, cap from 175,000,000 to 200,000,000 gals; 182 hydrants; pipe 29.1 miles, 2 to 12 in dia; 175 valves; pressure 80 pounds; waterworks owned by town; cost to construct \$160,000; cost to Feb. 1894, \$235,202.42; ann expenses about \$12,000. Supt, J. G. Tenney.

Lexington, Middlesex Co., population about 4,000; area 11,160 acres; buildings, wood, 2 and 3 stories; shingle roofs. Fire department—2 chemical engines, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,700 ft, poor 200 ft; value of fire department equipment \$3,000; value of 2 buildings occupied \$5,000; expenses of department for past year \$1,350; total membership 50; telephone alarm; 4 fire companies. Chief engineer, E. J. B. Nourse.

WATER SUPPLY—Source, wells; system, pumping to tank, cap \$2,000 gals; pumping engines, dy cap 600,000 gals; 50 hydrants; pipe $\frac{9}{8}$ miles, 4 to 8 in dia; 1 meter; pressure, domestic 60, fire 80 pounds; cost to construct \$100,000. Supt and treas, E. L. Wires.*

Lincoln, Middlesex Co., population 987; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—2 hose carriages, all kinds; hose, cotton good 1,500 ft; value of fire department equipment \$1,000; total membership 40, volunteers; 2 hose

companies, Captains, C. S. Wheeler and E. Miner. **WATER SUPPLY**—Source, Sandy pond; system, pumping to reservoir, capacity 1,300,000 gals; duplex pump, dy cap 100,000 gals; 15 hydrants; 12 valves; pipe 3 miles, 8 to 4 in dia; 55 taps; pressure 5 to 100 pounds; works owned by town; cost to construct \$35,000; ann expenses \$1,500. Supt, G. L. Chapin.

Littleton, Middlesex Co., population 1,025; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance.

WATER SUPPLY—Source, private wells; for domestic use only. Town clerk, Waldo E. Conant.

Lowell, Middlesex Co., population 80,000; fire area 125 acres; mercantile buildings, brick, stone and wood, 4 to 6 stories; private, wood, 1 to 5 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 2 chemical engines on wheels, 18 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 4 hose carriages, all kinds, 7 hose wagons, other apparatus, 7 supply wagons and water tower; hose, cotton good 22,000 ft; 60 horses, value \$12,000; value of fire department equipment \$180,000; value of buildings occupied \$258,000; total ann expenses of department \$141,818; total membership 175, paid full time 74, paid part time 101, substitute members 30; Gamewell alarm; 100 street boxes; 16 fire companies, 6 engine companies, 1 patrol company, 4 hook and ladder companies, 5 hose companies. Chief engineer, E. S. Hosmer.

WATER SUPPLY—Source, Merrimack river and driven wells; system, pump to 32,000,000 gal reservoir, high duty Worthington (10,000,000 gals), rebuilt Morris (high duty and 5,000,000 gals), (low duty Worthington 5,000,000 gals); 950 hydrants; pipe 100 miles, 4 to 30 in dia; 2,581 meters; pressure 60 pounds. Pres of waterboard, Miles F. Brennan; clerk, Charles L. Knapp; supt, Robert J. Thomas.

Ludlow, Hampden Co., population 1,839. Fire department not reported.

WATER SUPPLY—Town supplied by Springfield waterworks; 17 hydrants.

Lunenburg, Worcester Co., population 1,100; fire area about 17,000 acres; mercantile buildings, wood; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department consists of 2 Babcock chemical extinguishers.

WATER SUPPLY—Source, wells and cisterns. Chairman of selectmen, C. A. Goodrich; town clerk, Fernando Brooks.

Lynn, Essex Co., population 55,727; mercantile buildings, brick, 3 to 6 stories; private, wood, 2 to 4 stories; fireworks ordinance; causes of fire investigated. Fire department—7 steam fire engines, 4 chemical engines, 16 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 5 hose wagons, 4 hose reels with 1,000 ft of hose, attached to each; siamese couplings used; hose, cotton good 6,000 first quality, 14,000 ft good, poor 1,100 ft, 2,600 ft rubber hose for chemical engine, good; 37 horses; value of fire department equipment \$168,927.18; 7 buildings with land included; total ann expenses of department \$73,894.50; total membership 136, paid full time 34, paid part time 102; telegraph alarm; 86 street boxes. Chief elected by city council, Chas. H. Downing. (Proposed additions: 1 steamer, 2 chemical engines, 2,000 ft hose, 1 hook and ladder truck.)

WATER SUPPLY—Source, ponds and brooks; combined storage cap 1,100,000,000 gals; system, pumping to reservoir, reservoir cap 22,000,000 gals; pumping engines, dy cap 15,000,000 gals; 773 hydrants; pipe 120 miles; valves 914; 11,103 taps; pressure recording gauge; pressure 50 to 65 pounds; cost to construct \$2,098,350; ann expenses \$38,707. Supt, John C. Haskell.

Malden, Middlesex Co., population 30,000; fire area 2,000 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical engines on wheels, 10 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, all kinds, 3 hose wagons; hose, cotton good 8,000 ft, inferior 2,000 ft; 15 horses, value \$3,000; value of fire department equipment \$39,000; value of buildings occupied \$58,000; total ann expenses of department \$22,000;

total membership 53, paid full time 13, volunteer members 40; Gamewell alarm; no of street boxes 38, Chief engineer, Thomas Gowen.

WATER SUPPLY—Source, pond and driven wells; system, gravity and pumping from wells; standpipes cap 1,153,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 312; pipe 74 miles, 4 to 14 in dia; 936 valves; pressure, domestic, low service 56 to 60, high 90, fire 85 to 104 pounds; works owned by city; cost to construct to date \$845,398; ann expenses \$38,229.32. Supt, John N. Jordan.

Manchester, Essex Co., population 1,789; mercantile buildings, wood, 2½ stories; private, wood, 2½ stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine, 1 hook and ladder truck, 3 hose carriages; hose, linen good, 2,500 ft, leather good 400 ft, inferior 500 ft; value of fire department equipment \$10,500; total ann expenses of department \$1,220.75; total membership 58, all volunteers; 4 fire companies; bell alarm. Chief engineer, Chas. H. Stone.

WATER SUPPLY—Source, ground water; system, pump to standpipe, cap 518,000 gals; pumping engines, two pumps of 750,000 gals each; hydrants 120; pipe 14 miles, 12 to 6 in dia; 108 valves; 350 taps; pressure 75 pounds; works owned by town; original cost to construct \$125,000, to date \$153,000. Chairman, B. Knight; supt, F. M. Andrews.

Mansfield, Bristol Co., population 3,500; fire area 1,500 acres; mercantile buildings, wood, 3 stories; private, wood, 2½ stories; wooden roofs permitted. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, cotton good 2,800 ft, inferior 500 ft; value of fire department equipment \$3,100; value of buildings occupied \$3,000; ann expenses \$1,400; total membership 41, paid part time; bell and tapper alarm; 12 street boxes. Chief engineer, A. W. Cobb.

WATER SUPPLY—Source, springs; system, pumping direct and to standpipe; duplex pumps, dy cap 600,000 gals; 52 hydrants; pipe 9 2-5 miles; 38 gates; 105 meters, various pressure 45 to 70 pounds; cost to construct \$77,000; ann expenses \$6,500; int on bonds \$3,000. Supt, A. B. Day.

Marblehead, Essex Co., population 8,202; mercantile buildings, brick and wood, 3 stories; private, wood, 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 2 hand engines, 7 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, all kinds, 1 supply wagon; hose, cotton good 7,000 ft; 5 horses, value \$1,500; value of fire department equipment \$19,300; value of buildings occupied \$21,500; total ann expenses of department \$3,500; total membership 85, paid full time 4, paid part time 81, volunteers 80; Gamewell alarm; no of street boxes 24; 5 fire companies, 1 hook and ladder company, 5 hose companies. Chief engineer, Frank L. Wadden.*

WATER SUPPLY—Source, 2 collecting wells, 37 driven wells; system, pump to standpipe, cap 530,000 gals; pumping engines, dy cap 2,500,000 gals; hydrants 267; pipe 25½ miles, 14 to 6 in dia; 263 valves; pressure, domestic 65 to 75 pounds, fire same; works owned by city; cost to construct \$262,553.61; ann expenses \$3,500; int on bonds 4 per cent. Chairman, R. C. Bridge.

Marlborough, Middlesex Co., population 14,000; fire area 12,845 acres; mercantile buildings, wood, 3 stories; private, wood, 2 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hose and ladder truck, 1 reserve, 4 hose wagons, 1 reserve; hose, cotton good, 7,800 ft; 6 horses, value \$1,100; value of fire department equipment \$5,670; value of 5 buildings owned \$5,000; total ann expenses of department \$12,230; total membership 64, paid full time 5, volunteers 55; Gamewell alarm; 21 street boxes. Chief, John C. Rock.

WATER SUPPLY—Source, Lake Williams; system, pumping to reservoir and direct; reservoir cap 5,500,000 gals; pumping engines, dy cap 4,500,000 gals; 289 hydrants; pipe 32 miles, 4 to 16 in dia; 315 valves; 2,080 taps; pressure 17 to 130 pounds; cost to construct to date \$399,000; ann expenses \$6,000 Supt, Geo. A. Stacey.

Marshfield, Plymouth Co., population 1,713; mercantile buildings, wood, 1 story; dwellings, wood, 1 story; wooden roofs permitted; no fire-

works ordinance. No organized fire department.*

WATER SUPPLY—Source, wells and cisterna.*

Mattapan, Suffolk Co. (See Boston.)

WATER SUPPLY—(See Boston.)

Mattapoisett, Plymouth Co., population 1,148; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,100 ft; value of fire department equipment \$1,500; value of buildings occupied \$600; total ann expenses of department \$600; total membership 60; bell alarm; 1 fire company. Foreman, Addison Curtis.

WATER SUPPLY—Source, ocean, well, cisterna, springs and 4 reservoirs; supply unexhaustible.

Maynard, Middlesex Co., population 2,700; mercantile buildings, mills, brick, others wood, 2½ to 3 stories; private, wood, 2½ stories; wooden roofs permitted, fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,700 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,500; total membership 40, volunteer members 40; 2 fire companies, 1 hook and ladder company, 1 hose company; Gamewell fire alarm. Chief engineer, David Henderson.

WATER SUPPLY—Source, White Pond; system, gravity, pumping to reservoir, cap 1,500,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 77; pipe 7 1-2 miles, 12 to 4 in dia; works owned by city; cost to construct \$110,000; ann expenses \$5,500; int on bonds 4 per cent; pressure 65 to 95 pounds. Supt, Thos. Naylor.

Medfield, Norfolk Co., population 1,600; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,300 ft; value of fire department equipment \$5,250; total ann expenses of department \$1,200; total membership 60, paid part time; bell and whistle alarm; 1 engine company, 1 hook and ladder company. Chief engineer, William F. Harding.

WATER SUPPLY—Source, spring; cap of standpipe 25,000 gals. Town clerk, Stillman J. Spear.

Medford, Middlesex Co., population 15,000; fire area 11,500 acres; mercantile buildings, brick and wood, 3 and 4 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 chemical engine, 6 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 3 supply wagons, 4 hose pungs; hose, cotton good 8,000 ft, inferior 500 ft; 11 horses, value \$3,300; value of fire department equipment \$25,000; value of buildings occupied \$20,000; total ann expenses of department \$14,000; total membership 49, paid full time 7, paid part time 42; Gamewell alarm; 28 street boxes. Chief engineer, Arthur C. Symmes.

WATER SUPPLY—Source, Spot Pond; system, gravity; 224 hydrants; pipe 41 miles, 2 to 12 in dia; 341 valves; 10 meters; pressure 55 pounds; cost to construct \$320,000; ann expenses \$4,000; int on bonds 6 per cent. Supt, R. M. Gow.*

Medway, Norfolk Co., population 2,985; buildings, wood, 2½ to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck; hose, linen good 2,500 ft; value of buildings occupied \$3,500; expenses for past year \$1,500; total membership 120, all volunteers. Chief engineer, M. F. Desmond.

WATER SUPPLY—Source, river, 7 cisterna. Town clerk, George E. Pond.

Melrose, Middlesex Co., population 10,000; fire area 2,700 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,600 ft, leather good 200 ft, 3 permanent and 4 call horses, value \$600; value of fire department equipment \$10,000; value of buildings occupied \$7,000; total ann expenses of department \$6,000; total membership 70, paid full time 2, paid part time 68, volunteer members 12; electric fire alarm; street

boxes 22. Chief engineer, A. Wilbur Lynde. WATER SUPPLY—Source, Spot Pond; system, pumping to reservoir, cap 1,500,000 gals; Blake pumping engines, dy cap 1,000,000 gals; hydrants 180; pipe 35 miles, 4 to 16 in dia; 250 valves; pressure 80 pounds; works owned by town; cost to construct to date \$306,551; ann expenses \$10,000. Pres, W. D. Flske; supt, James W. Riley.

Merrimack, Essex Co., population 2,700; fire area 800 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose cotton good 2,000 ft, inferior linen 500 ft, leather good 1,200 ft, inferior 400 ft; 5 horses, hired; value of fire department equipment \$9,000; value of buildings occupied \$3,000; expenses for 1893, \$2,050; total membership \$3, all volunteers; electric alarm; 11 street boxes; 4 fire companies. Chief engineer, Albert Parker.

WATER SUPPLY—Source, brook and Merrimack river, 1 reservoir. Town clerk, Bailey Sargent.

Methuen, Essex Co., population 5,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber lined good 3,000 ft, inferior 1,000 ft; 6 horses, value \$800; total ann expenses of department \$2,700; value of fire department equipment \$1,500; value of buildings occupied \$2,000; total membership 31, paid part time 3; Gamewell alarm; 24 street boxes. Chief engineer, Henry N. Hall.

WATER SUPPLY—Source, Lawrence waterworks; system, direct pumping; 3 pumps; 95 hydrants; 2 1/2 miles main; pressure 200 pounds; cost to construct \$8,000. Built for fire protection only. Clerk, D. W. Feirny.

Middleborough, Plymouth Co., population 6,065; fire area 3,500 acres; mercantile buildings, wood and brick, 2 to 4 stories; private, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,000 ft; value of fire department equipment \$7,000; value of buildings occupied \$7,500; total ann expenses of department \$3,000; total membership 112, paid part time; Gamewell alarm; 17 street boxes, 7 fire companies, 1 hook and ladder company, 5 hose companies. Chief engineer, Charles W. Kingman.

WATER SUPPLY—Source, Nemasket river and large well; system, pumping direct and to stand-pipe; stand-pipe cap 235,000 gals; 2 pumping engines, dy cap 884,000 gals each; 96 hydrants; pipe 12 7/8 miles, 4 to 12 in dia; 120 valves; 640 taps; pressure, domestic 40 to 70, fire 100 pounds if necessary; waterworks owned by fire district; cost to construct to Jan. 1894, \$97,087; ann expenses \$3,910. Supt, Joseph E. Beale.

Middleton, Essex Co., population 924; buildings, wood, 1 1/2 and 2 stories; wooden roofs permitted. Fire department—24 chemical extinguishers, 1 hose carriage, other apparatus, set of hooks and ladders; hose, rubber good 900 ft; value of fire department equipment \$1,200; value of buildings occupied \$75; total ann expenses of department \$36; total membership 12; whistle alarm. Chief engineer, B. T. McGlaulin.

WATER SUPPLY—Source, lake; town supplied from Dauvers waterworks; system, pumping to reservoir, cap 5,000,000 gals; 5 hydrants; pipe 2 miles, 1 1/2 in dia; pressure 80 pounds.

Milford, Worcester Co., population 10,982; fire area 12,160 acres; buildings, wood, brick and granite, 1 1/2 to 3 stories; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 2 jumpers, slamese couplings used; hose, cotton good 7,000 ft; 7 horses; value of fire department equipment \$37,000; value of buildings occupied \$8,000; total ann expenses of department \$11,000; total membership 84; Gamewell alarm; 18 street boxes. Chief engineer, J. H. Scott.

WATER SUPPLY—Source, well and Charles river; system, direct pumping; pumping engines, dy cap 4,500,000 gals; 103 hydrants; pipe 28 miles, 4 to 14 in dia; 125 gates; pressure 40 to 85 pounds; waterworks owned by private company; cost to con-

struct \$290,000; ann expenses \$3,200. Pres of com, C. W. Shippee; supt, Frank L. Northrop.*

Millbury, Worcester Co., population 4,800; buildings, wood and brick, 1 1/2 and 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 chemical engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,500 ft, poor 500 ft; value of fire department equipment \$10,000; value of buildings \$3,000; expenses in 1893, \$2,700; total membership 45, paid part time; electric fire alarm system. Chief engineer, N. H. Shears.

WATER SUPPLY—Source, wells; private reservoirs. Town have contracted for 60 fire hydrants from Water Co. Town clerk, Ira N. Goddard.

Millis, Norfolk Co., population 1,800; fire area 2 1/2 sq miles; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 8 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 700 ft, linen good 2,000 ft; 4 horses; value of fire department equipment \$4,750; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 40; whistle alarm. Chief engineer, Joseph S. Adams.

WATER SUPPLY—Source, wells and cisterns.

Millville, Worcester Co., population 1,800; buildings, brick and wood, 2 to 4 stories. Fire department—3 hose carriages; hose, cotton good 2,000 ft, linen good 2,000 ft; total membership 80, all volunteers; bell and steam whistle alarm. Chief engineer, W. J. Bower.

WATER SUPPLY—No report; rotary and steam pumps in factories. Town clerk, M. Carroll.

Milton, Norfolk Co., population 4,278; fire area 4,080 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 4,200 ft; 8 horses, value \$1,600; value of fire department equipment \$9,000; value of buildings occupied \$15,000; total ann expenses of department \$8,500; total membership 61, paid full time 6, volunteer members 55; Gamewell alarm; 29 street boxes; 6 fire companies. Chief engineer, Rufus L. Chapman.*

WATER SUPPLY—Source, Hyde Park Water Co; system, pump to stand-pipe; 155 hydrants; pipe 12 miles, 6 to 12 in dia; 100 valves; pressure 80 to 120 pounds; works owned by company; cost to construct \$150,000; int on bonds 5 per cent. Pres of com, E. P. Whitney; supt, Wm. F. Hill.

Monsen, Hampden Co., population 3,650; fire area whole town; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 1 hook and ladder truck; hose, rubber good 200 ft; value of fire department equipment \$1,200; total ann expenses of department \$166; total membership 63, volunteers; bell and whistle alarm. Chief engineer, D. B. Needham.

WATER SUPPLY—Source, wells and rotary pumps in mills and factories. (Waterworks contemplated.)

Montague, Franklin Co., (includes Turners Falls and Millers Falls); population 6,296; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,400 ft, inferior 300 ft, rubber good 300 ft, inferior 200 ft; total ann expenses of department \$1,000; total membership 32, paid part time; bell alarm. Chief engineer, D. McCarthy.

WATER SUPPLY—Source, Lake Pleasant; system, pumping to reservoir; reservoir cap 1,270,000 gals; pumping engines, dy cap 1,800,000 gals; 58 hydrants; pipe 8 miles, 14 to 4 in dia; 63 valves; 365 taps; pressure, domestic 100, fire 100 pounds; waterworks owned by fire district; cost to construct \$100,211; cost to date \$108,920; ann expenses \$7,500. Supt, H. D. Bardwell.

Nantucket, Nantucket Co., population 3,300; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—5 hand en-

gines, 2 hook and ladder trucks, 3 hose carriages, 2 hose carts; hose, cotton good 3,875 ft, leather good 450 ft, linen good 400 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,500; total ann expenses of department \$4,800; total membership 212, paid full time; telegraph alarm; fire patrol supported by town, 4 members. Chief engineer, B. B. Coffin.

WATER SUPPLY—Source, Wannaconnet pond, 2 miles west of town; system, pumping to tank and direct; reservoir cap 50,000 gals; pumping engines, dy cap 1,500,000 gals; 50 hydrants; pipe 8-36 miles, 8 to 4 in dia; 53 valves; pressure 30 to 37 pounds; waterworks owned by company; cost to construct \$60,000. Pres of com, R. Gardner Chase; supt, Wm. F. Codd.

Natick, Middlesex Co., population 9,118; mercantile buildings, brick and wood, 2½ and 3 stories; private, wood, 1½ and 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 4 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, 3 hose wagons; hose, cotton good 8,000 ft, inferior 685 ft; 9 horses, value \$1,800; value of fire department equipment \$15,000; value of buildings occupied \$28,000; total ann expenses of department \$4,500; total membership 52, 3 paid full time, remainder part time; Gamewell alarm; 13 street boxes; 4 fire companies. Chief engineer, J. W. Morse.

WATER SUPPLY—Source, pond, located at Natick; system pumping to reservoir and direct; reservoir cap 4,000,000 gals; pumping engines, dy cap 1,500,000 gals; 161 hydrants; pipe 22 3-4 miles, 2 to 12 in dia; 202 valves; taps 1,486; pressure 60 to 80 pounds; waterworks owned by city; cost to construct to date \$259,243; ann expenses \$6,430. Supt, J. W. Morse.

Needham, Norfolk Co., population 3,800; fire area 7,000 acres; mercantile buildings, wood, 3 stories; private, wood, 2 1-2 stories; shingle roofs used. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose wagons; hose, cotton good 3,700 ft, inferior 300 ft; 8 call horses; value of equipment \$5,000; value of buildings occupied \$2,500; expenses in 1893, \$1,400; membership 36, volunteers; Gamewell alarm; 12 street boxes; 3 hose companies, 1 hook and ladder company. Chief engineer, John H. Whittemore.

WATER SUPPLY—Source, wells and cisterns; system, pump to standpipe; cap of standpipe 301,000 gals; pumping engines, dy cap 2 pumps of 750,000 gals each; 160 hydrants; pipe 20.85 miles, 12 to 4 in dia; 160 valves; taps 443; pressure 75 to 110 pounds; works owned by town; ann expenses \$7,600; cost to construct \$75,000, to date \$136,000. Supt, George A. Adams.

New Bedford, Bristol Co., population 55,000; fire area 1,920 acres; mercantile buildings, brick, 2½ stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—8 steam fire engines, 1 hand engine, 16 chemical extinguishers, 1 hook and ladder truck, 2 aerial trucks, 8 hose carriages, all kinds, 9 hose wagons; hose, cotton good 14,000 ft; 32 horses, value \$6,400; value of fire department equipment \$60,000; value of buildings occupied \$160,000; total ann expenses of department \$59,000; total membership 210, paid full time 30, paid part time 180; Gamewell alarm; 77 street boxes, private 18; 12 fire companies, 7 engine companies, 3 hook and ladder companies, 2 hose companies. Chief engineer, Frederick Macy.

WATER SUPPLY—Source, storing reservoir, Little Quittacus pond and Acushnet river; system, gravity, pump to reservoir and standpipe, standpipe cap 15,000,000 gals; cap of reservoirs 318,000,000 gals; 3 pumping engines, dy cap 15,000,000 gals; 585 hydrants; pipe 72½ miles, 4 to 30 in dia; 882 valves; pressure 4 to 65 pounds; Edison pressure recording gauge; works owned by city; cost to construct about \$800,000; cost to date \$1,590,122; ann expenses \$31,123. Supt, R. C. P. Coggeshall.

Newbury, Essex Co., population 1,427; buildings, wood, 2½ stories; wooden roofs permitted. Fire department, see Newburyport.

WATER SUPPLY—Source, wells, cisterns and rivers. (A main from Newburyport is laid through part of town.) Town clerk, J. C. Rolf.

Newburyport, Essex Co., population 15,000; mercantile buildings, brick and wood, 3 to 5 stories; dwellings, wood, 2½ and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire de-

partment—3 steam fire engines, 6 chemical extinguishers, 2 hook and ladder trucks, (1 in reserve) 2 hose carriages, 4 hose wagons, 1 supply wagon; hose, cotton good 8,000 ft, fair 3,000 ft; 9 horses, value \$2,700; value of fire department equipment \$11,000; value of buildings \$14,000; expenses of department \$11,174; total membership 87, paid part time; Gamewell alarm; 20 street boxes. Chief engineer, S. C. Reed.

WATER SUPPLY—Source, spring; system, pumping to standpipe; standpipe cap 375,000 gals; pumping engines, dy cap 4,000,000 gals; 175 hydrants; pipe 30 miles, 4 to 12 in dia; 2,160 taps; pressure, 58 pounds; works owned by company. Supt, John E. McCusper.

Newtown, Middlesex Co., population 28,000; fire area 11,000 acres; mercantile buildings, wood, 3 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 2 chemical engines, 1 hook and ladder truck, 1 aerial truck, 8 hose carriages, all kinds, 2 hose wagons; hose cotton good 8,000 ft, rubber good 2,500 ft; 23 horses, value \$5,250; value of fire department equipment \$63,000; value of buildings occupied \$125,000; total ann expenses of department \$39,000; total membership 58, paid full time 23, paid part time 65; Gamewell alarm; 105 street boxes. Chief engineer, Henry L. Bixby.

WATER SUPPLY—Source, Charles river, fed by intercept springs; system, pump to reservoir, cap 17,500,000 gals; pumping engines, dy cap 10,000,000 gals; 736 hydrants; pipe 110 miles, 4 to 20 in dia; 564 valves; pressure 10 to 115 pounds; works owned by city; cost to construct to Jan 1, 1894, \$1,743,000; ann expenses \$16,000. Pres of board, Wm. P. Ellison; supt, H. N. Hyde.

North Adams, Berkshire Co., population 18,300; fire area 6,500 acres; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 3,900 ft, inferior 500 ft; value of fire department equipment \$4,600; value of buildings occupied \$24,000; total ann expenses of department \$4,000; total membership 49, paid part time; Gamewell alarm; 24 street boxes. Chief engineer, J. D. Brennan.

WATER SUPPLY—Source, springs and brooks; system, gravity; reservoir cap 3,000,000 gals; 180 hydrants; pipe 18 miles, 4 to 24 in dia; 3,000 taps; pressure 80 to 100 pounds; works owned by city; ann expenses \$22,000. Supt, W. F. Hodge.

Northampton, Hampshire Co., population 14,990; mercantile buildings, brick, stone and wood, 3 stories; private wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 2 hand engines, 1 chemical engine on wheels, 2 hook and ladder trucks, 6 hose carriages, all kinds, 2 hose wagons; hose, cotton good 7,000 ft, inferior 1,300 ft; 5 horses, value \$1,000; value of fire department equipment \$22,010.95; value of buildings occupied \$15,000; total ann expenses of department \$6,142; volunteer members 98; Gamewell alarm; 23 street boxes; 6 fire companies, 1 engine company, 1 hook and ladder company, 4 hose companies. Chief engineer, W. A. Bailey.

WATER SUPPLY—Source, mountain stream, 9 miles distant, system, gravity; reservoir cap 20,000,000 gals; 227 hydrants; pipe 45 1-3 miles, 3 to 24 in dia; 227 valves; pressure, domestic 30 to 90 pounds; works owned by city; cost to construct to date \$305,275; ann expenses \$2,500. Supt, Luther C. Wright.

North Andover, Essex Co., population 3,742; buildings, brick and wood, 2½ to 5 stories. Fire department—1 steam fire engine, 1 hand engine, 1 hose carriage, 1 hose wagon, 1 hose reel; hose, linen good 4,700 ft, rubber good 50 ft; 3 horses, value \$700; value of fire department equipment \$12,000; expenses \$3,500; total membership 64, paid full time 1; bell alarm. Chief engineer, Wm. A. Johnson.

WATER SUPPLY—Source, reservoirs; cap 10,000 gals; owned by town.*

North Attleborough, Bristol Co., population 6,727; fire area 2,100 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose

wagon, 2 hose reels; siamese couplings used; hose, cotton good 3,600 ft, inferior 900 ft; 4 horses, hired; value of fire department equipment \$9,000; value of buildings occupied \$6,000; total ann. expenses of department \$8,500; total membership 48, paid part time; Gamewell alarm; 21 street boxes; swinging harness; 1 engine company, 1 hook and ladder company, Chief, Chas. W. H. Day.

WATER SUPPLY—Source, well 26 dia 30 deep; system, direct pumping; reservoir cap 585,000 gals; pumping engines, dy cap 1,000,000 gals; 118 hydrants; pipe 14 miles, 6 to 18 in dia; 318 meters; 615 taps; pressure 70 to 83 pounds; waterworks owned by Fire District No. 1; cost to construct \$110,000; ann. expenses \$9,379. Supt, W. P. Whittemore. #

Northborough, Worcester Co., population 1,953; mercantile buildings, brick and wood, 2 and 3 stories; wooden roofs are permitted; dwellings, wood, 2 and 2½ stories high; no fireworks ordinance. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, fair 500 ft; value of fire department equipment \$3,350; value of buildings occupied \$2,000; expenses \$574; 1 hook and ladder company, 1 hose company, 1 engine company; total membership 27. Chief, Francis M. Harrington.

WATER SUPPLY—Source, Cold Harbor brook; system, gravity; reservoir cap 30,000,000 gals; 57 hydrants; pipe 10 miles; 49 valves; pressure 65 to 85 pounds; owned by town; cost to construct \$70,500; ann. expenses \$3,500. Supt, R. E. Yates.

Northbridge, Worcester Co., population 4,603; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, linen good 12,000 ft; total ann. expenses of department \$1,000; total membership 53, paid full time; bell and electric alarm. Chief engineer, C. A. Taft.

WATER SUPPLY—Source, springs 1.4 mile from city; system, gravity; reservoir cap 390,000 gals; pumping engines; 50 hydrants; pipe 17 miles, 12 to 4 in dia; 35 valves; pressure, domestic 75, fire 100 pounds; works owned by company; ann. expenses \$1,000. Town clerk, J. J. Johnston.

North Brookfield, Worcester Co., population 3,900; fire area whole town; mercantile buildings, wood, 1½ to 3 stories; private, wood, 1½ to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 chemical engine, 20 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 3,000 ft, poor 400 ft; value of fire department equipment \$7,500; value of buildings occupied \$3,000; total ann. expenses of department \$1,500; total membership 55, paid part time; steam whistle alarm; 4 fire companies, Chief engineer, A. C. Foster.

WATER SUPPLY—Source, springs; system, direct pumping; storage cap of reservoirs 400,000 gals; cap of reservoirs 3,500,000 gals; cap of pumps 40,000 gals per hour; 20 hydrants; 4½ mile of pipe, 12 to 18 in dia; pressure 85 to 95 pounds; works owned by town; cost to construct \$120,000. Supt, J. R. Southworth.

North Easton, Bristol Co., mercantile buildings, stone, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine (useless), 1 hose carriage; hose, linen good 2,000 ft; bell alarm.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 240,000 gals; pumping engines, dy cap 1,500,000 gals; 75 hydrants; pipe 6 miles, 10 to 4 in dia; 125 valves; 62 meters; pressure 60 to 90 pounds; cost to construct \$80,000. Village clerk, D. F. Buckley. #

Northfield, Franklin Co., population 1,869; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ to 2½ stories; wooden roofs permitted; no fireworks ordinance. No fire department. #

WATER SUPPLY—Source, brooks; and aqueducts; system, gravity; pipe 8 miles, 2 in dia; quality of water pure. Town clerk, W. J. Wright.

Norwood, Norfolk Co., population 3,900; fire area 400 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2½ stories; wooden roofs are permitted; fireworks ordinance. Fire depart-

ment—2 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 3,850 ft, inferior 600 ft; value of fire department equipment \$3,850; value of buildings occupied \$7,000; total ann. expenses of department \$1,400; total membership 40, paid part time; bell and whistle alarm. Chief engineer, J. E. Boyder.

WATER SUPPLY—Source, pond fed by springs; system, pumping to reservoir; reservoir cap 1,400,000 gals; pump, dy cap 1,000,000 gals; 110 hydrants; pipe 7 miles, 8½ valves; pressure 58 pounds; works owned by town; cost to construct \$110,000; cost to date \$135,000; ann. expenses \$2,500. Supt, Geo. A. P. Bucknam.

Orange, Franklin Co., population 4,568; fire area 1,000 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are not permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 20 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, linen good 5,000 ft; value of fire department equipment \$12,000; value of buildings occupied \$1,500; total ann. expenses of department \$3,000; total membership 50, paid part time; Municipal fire alarm; street boxes 10. Chief engineer, C. A. Hinds. (Proposed 2 hose carts.)

WATER SUPPLY—Source, springs; system, pumping to reservoir and direct; reservoir cap 2,500,000 gals; pumping engines, cap per 10 hrs. 500,000 gals; hydrants 101; pipe 12 miles, 6 to 18 in dia; 48 valves; 184 taps; pressure, domestic 80 fire 100 pounds; waterworks owned by city; cost to construct \$140,000. Supt, Edwin W. Snow.

Orleans, Barnstable Co., population 1,219; fire area 5,500 acres; mercantile buildings, wood, 1 and 2 stories; dwellings, wood, 1 and 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical and hand engine, combined, 1 hose carriage; hose, linen 700 ft, good; value of buildings \$200. Foreman, Geo. H. Flak.

WATER SUPPLY—Source, wells and small cisterns. Town clerk, David L. Young.

Oxford, Worcester Co., population 2,616; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hose carriage, 1 hose wagon; hose, cotton good 1,400 ft, inferior 500 ft; value of fire department equipment \$6,000; value of buildings occupied \$1,800; total ann. expenses of department \$500; total membership 45, paid part time; bell alarm. Chief engineer, D. L. White.

WATER SUPPLY—Source, cisterns, wells and streams; total cap of cisterns 3,328 bbls

Palmer, Hampden Co., population 6,520; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton rubber lined good 2,050 ft; total membership 35; bell alarm. Chief engineer, W. H. Hitchcock.

WATER SUPPLY—Source, springs; system, gravity; 60 hydrants; pipe 8 miles, 4 to 12 in dia; 25 valves; meters 8; pressure 70 pounds; cost to construct \$45,000; ann. expenses \$1,200; int. on bond, 5 per cent. Free or chairman of com, C. L. Goodhue, Springfield; treasurer and supt, John H. Gamewell. #

Pembody, Essex Co., population 10,158; fire area 10,000 acres; buildings, wood, 2 stories; wooden roofs are permitted. Fire department—2 steam fire engines, 3 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 3 hose wagons, 1 supply wagon, 5 hose pumps; siamese couplings used; hose, cotton good 10,800 ft; 8 horses; value of fire department equipment \$23,000; 5 buildings occupied value \$43,700; total ann. expenses of department \$8,600; total membership 100, paid full time 5, paid part time 97; electric alarm; 28 street boxes; 2 whistle; 2 strikers. Chief appointed by engineers, S. S. Littlefield.

WATER SUPPLY—Source, spring and Brown's pond; system, gravity and pumping to standpipe, cap 500,000 gals; pump, dy cap 2,000,000 gals; 215 hydrants; pipe 30 1-5 miles, 1 to 16 in dia; pressure 75 pounds; expenses to date \$814,000; ann. expenses \$8,000; works owned by town. Supt, N. M. Quint; city clerk, Nathan H. Poor.

Pembroke, Plymouth Co., population 1,320; fire area 13,000 acres; mercantile buildings, wood, 1½ stories; private, wood, 1½ stories; wooden

roofs permitted; no fireworks ordinance. No organized fire department.

WATER SUPPLY—(See Abington.)

Pepperell, Middlesex Co., population 3,400; mercantile buildings, wood, 3 stories; private, wood, 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 4,700 ft. inferior 500 ft.; leather inferior 500 ft.; value of fire department equipment \$10,000; value of buildings occupied \$7,000; total ann expenses of department \$3,000; total membership 73, paid part time; telegraph alarm; street boxes 5. Chief engineer, Warren M. Blood.

WATER SUPPLY—Source, reservoirs and wells. (Talk of waterworks.)

Petersham, Worcester Co., population 1,050. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck; hose, good 300 ft. Chief engineer, J. F. Barner.

WATER SUPPLY—Source, wells. Town clerk, B. B. Cook.*

Pittsfield, Berkshire Co., population 17,881; fire area 640 acres; mercantile buildings, brick and wood, 3 to 7 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 2 hand engines, 6 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages; hose, cotton good 8,550 ft. inferior 1,500 ft.; value of fire department equipment \$30,000; value of buildings occupied \$10,000; total ann expenses of department \$9,041; total membership 174, paid part time 22; telegraph alarm; 33 street boxes. Chief elected by district, Geo. W. Branch.

WATER SUPPLY—Source, Ashley Lake, Hathaway and Sackett brook; system, gravity; 3 reservoirs, combined cap 500,000 gals; 140 hydrants; pipe 48 miles, 3 to 16 in dia.; 300 valves; 3,500 taps; pressure 55 pounds; works owned by city; cost to construct to date \$4,170,000; cost to construct \$35,000; ann expenses \$4,100. Supt, John M. Hatch.

Plainville, Norfolk Co., population included in Wrentham. Fire department—1 hand engine, 1 hose carriage; hose, leather good 300 ft; total membership 50, all volunteers.*

WATER SUPPLY—Source not given; system, gravity; 1 reservoir, cap 40,000 gals; Knowles pump; 5 hydrants. Owners, L. Bacon & Co.

Plymouth, Plymouth Co., population 7,500; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—3 steam fire engines, 1 hand engine, 2 chemical engines, 2 hook and ladder trucks, 7 hose carriages; hose, cotton rubber lined good 6,000 ft., rubber good 100 ft., 400 ft linen; 4 horses; total ann expenses of department \$5,000; total membership 155; electric alarm; 14 boxes. Chief engineer, H. P. Bailey.

WATER SUPPLY—Source, South pond; system, gravity and pumping to reservoir; reservoir cap low service 1,600,000 gals, high service 1,400,000 gals; pumping engines, dy cap 1,500,000 gals; 87 hydrants (15 private); pipe 33 miles, 20 to 2 in dia; 267 valves; pressure 50 to 100 pounds; waterworks owned by town; original cost to construct \$78,829.88; cost to Dec. 31, 1893, \$248,214; ann expenses \$6,127. Supt, R. W. Bagnell.

Provincetown, Barnstable Co., population 4,642; fire area 3,000 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, (5 hand engines, out of use) 1 chemical engine on wheels, 1 chemical extinguisher, 1 hook and ladder truck, 4 hose carriages, 3 in reserve, all kinds, 1 hose wagon; hose, cotton good 4,250 ft.; value of fire department equipment \$28,000; value of buildings occupied \$7,000; total ann expenses of department \$2,133; total membership 155; bell alarm. Chief engineer, J. D. Hilliard.

WATER SUPPLY—Source, tubular wells; system, pumping to standpipe; standpipe cap 460,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 83; pipe 1.3 miles, 12 to 4 in dia; 121 valves; 150 taps; pressure 50 to 75 pounds; waterworks owned by city; cost to construct \$70,000; ann expenses \$2,000; also 42 cisterns. Chairman, L. N. Palne.

Quincy, Norfolk Co., population 16,723; fire area 85 miles; mercantile buildings, wood and brick, 1½ to 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordi-

nance. Fire department—1 steam fire engine, 2 chemical engines on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 3 hose wagons, other apparatus, 2 reels, 2 jumpers; hose, cotton good 8,000 ft. inferior 400 ft; 7 horses, value \$2,100; value of fire department equipment \$8,000; value of buildings occupied \$10,000, total ann expenses of department \$12,500; total membership 77, paid full time 6; Gamewell alarm; street boxes 30. Chief engineer, Walter H. Ripley.*

WATER SUPPLY—Source, reservoir on Town Brook in Braintree, cap 180,000,000 gals, and 2 wells; system, pump to standpipe; standpipe cap 423,000 gals; 3 pumping engines, dy cap 2,000,000 gals each; hydrants 186; pipe 44.84 miles, 4 to 20 in dia; 450 valves; taps 1,850; pressure 80 to 85 pounds; Edison pressure recording gauge; works owned by city; cost to date \$652,806; ann expenses \$11,371. Chairman, H. T. Whitman; supt, F. E. Hall.

Randolph, Norfolk Co., population 3,946; mercantile buildings, wood, 2 to 5 stories; dwellings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 3,500 ft.; 6 horses; total membership 60, paid part time; 4 fire companies. Chief engineer, C. A. Wales.

WATER SUPPLY—Source, Great Pond; system, pumping to standpipe; 2 standpipes, cap 1,356,760 gals; Holly Blake pumping engines, dy cap Holly 2,500,000 gals; Blais 1,500,000 gals; 131 hydrants; pipe 20 miles, 4 to 14 in dia; 90 valves; pressure 73 to 87 pounds; waterworks owned by towns of Randolph and Holbrook; cost to construct \$110,000; ann expenses \$2,000; int on bonds 4 per cent. Water com, C. A. Wales.

Reading, Middlesex Co., population 4,088; fire area 5 sq miles; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 steam fire engine, 10 chemical extinguishers, 4 hose carriages, all kinds; hose, cotton good rubber lined 5,200 ft.; value of fire department equipment \$8,000; value of buildings occupied \$11,000; total ann expenses of department \$2,350; total membership 85; Stevens alarm; street boxes 15; 5 fire companies. Chief engineer, E. C. Nichols.

WATER SUPPLY—Source, wells and cisterns; system, pump to standpipe cap 529,800 gals; pumping engines, dy cap 1,200,000 gals; 103 hydrants; pipe 18 1-2 miles, 12 to 6 in dia; 190 valves; 601 taps; pressure 75 pounds; works owned by town; original cost to construct \$148,069; cost to date \$174,754; ann expenses \$4,000. Supt, Lewis M. Bancroft.

Revere, Suffolk Co., population 6,000; fire area 2,500 acres; buildings, private, wood, 2 1-2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, cotton good 4,900 ft. inferior 100 ft; 5 horses, value \$1,000; value of fire department equipment \$10,850; value of buildings occupied \$6,750; total ann expenses of department \$12,500; expenses for past year \$16,500; total membership 83, paid full time 4, part time 59, rest volunteers; Stevens alarm; 23 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, Frank H. Hussey.

WATER SUPPLY—Source, tubular well; system, pumping to reservoir and direct; reservoir cap 1,500,000 gals; pumping engines, dy cap 1,250,000 gals each; 79 hydrants; pipe 26 miles, 2 to 14 in dia; 114 valves; 1,189 taps; pressure 75 pounds; works owned by company; ann expenses \$5,000; int on bonds 5 per cent. Supt, Albert S. Burnham.*

Riverside, Franklin Co., population 1,400; buildings, brick and wood, 1 and 1-2 stories; wooden roofs permitted; no fireworks ordinance. No organized department.

WATER SUPPLY—Source, springs; system, gravity; pipe 1 mile, 8 in dia; waterworks owned by company. Supt, M. A. Ward.*

Rockland, Plymouth Co., population 6,021; fire area 6,440 acres; mercantile buildings, brick and wood, 2 1-2 stories; private, wood, 1-2 and 2-3 stories; wooden roofs not permitted in fire district; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon, 1 small hose reel; hose, cotton good 3,100 ft. rubber good 300 ft; 8 horses, hired; value of fire depart-

ment equipment \$6,500; value of buildings occupied \$4,500; total ann expenses of department \$2,962; total membership 62, paid part time; Gamewell alarm. Chief engineer, N. B. Foster.

WATER SUPPLY—Source, Big Sandy pond; system, pumping to standpipe, cap 367,163 gals; pumping engines, dy cap 2,000,000 gals; 119 hydrants; pipe 19 1-2 miles, 16 to 4 in dia; 88 valves; pressure 75 pounds; works owned by town; cost to construct \$130,000; ann expenses \$4,000; int on bonds 4 per cent. Supt, W. B. Groce.*

Rockport, Essex Co., population 4,087; fire area 4,250 acres; mercantile buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 hook and ladder truck, 1 hose carriage, 2 supply wagons; hose, cotton 3,500 ft; value of fire department equipment \$7,500; value of 4 buildings occupied \$4,000; total ann expenses of department \$2,100; total membership 55, paid full time; bell alarm. Chief engineer, John Parsons, Jr.

WATER SUPPLY—Source, river and 11 cisterns; cap of cisterns 20,000 gals. Town clerk, C. W. Pool. (Waterworks contemplated.)

Royalston, Worcester Co., population 1,020; buildings, wood. Fire department—1 hand engine, fire pump; hose, 1,000 ft.

WATER SUPPLY—Source, river. Town clerk, Geo. W. Blandin.

Salem, Essex Co., population 30,801; fire area 7 sq. miles; mercantile buildings, brick and wood, 2 1/2 to 4 stories; private, wood, 2 1/2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 1 hand engine, 8 pony chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages, 5 hose wagons, 1 supply wagon; hose, good 17,500 ft; 21 horses, value \$5,000; value of fire department equipment \$33,420; value of buildings occupied \$33,000; total ann expenses of department \$27,500; total membership 104, paid full time 14, paid part time 90; Pearce & Jones fire alarm; street boxes 73; 7 fire companies, 3 engine companies, 1 hook and ladder company, 3 hose companies. Chief engineer, Wm. O. Arnold.

WATER SUPPLY—Source, Wenham lake; system, pump to reservoir and direct; reservoir cap 20,000,000 gals; pumping engines, dy cap 10,000,000 gals; hydrants 350, pipe 62 miles, 4 to 30 in dia; 642 valves; 5,963 taps; pressure 50 pounds; works owned by city; cost to construct \$630,586.66, to date \$1,739,688; ann expenses \$31,000. Supt, Henry A. Cook.

Salisbury, Essex Co., population 1,300; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—(see Amesbury).

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 15,000 gals; pipe 3 miles, 2 1/2 and 3 in dia; quality of water good; works owned by company.

Sandwich, Barnstable Co., population 1,819; mercantile buildings, wood, 1 and 1 1/2 stories; private, wood, 2 1/2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hand engine; bell alarm. Foreman, Geo. Wright.

WATER SUPPLY—Source, wells, supplied by springs. Town clerk, John A. Holway.

Saugus, Essex Co., population 4,200; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 3,800 ft; value of fire department equipment \$5,000; value of buildings occupied \$10,000; total ann expenses of department \$1,100; membership 73, all volunteers; 3 hose companies, Municipal fire alarm, 24 street boxes. Chief engineer, Chas. I. Hitching.

WATER SUPPLY—Source, supplied by Lynn Water Co.; system, pumping to reservoir; 124 hydrants, pipe 12 miles, 4 to 10 in dia. F. C. Shilver, water commissioner. (see Lynn.)

Saxtonville, Middlesex Co., population 1,500 fire area 11 acres; mercantile buildings, wood, 3 stories; private, wood, 2 and 2 1/2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hose carriage, 1 hose

wagon; hose, cotton good 800 ft; value of fire department equipment \$7,500; value of buildings occupied \$5,000; expenses of department \$4,500; total membership 17, paid volunteers; Gamewell and Stevens alarm; 4 street boxes; 1 engine company. Chief engineer, C. A. Hemingway.*

WATER SUPPLY—Source, river; system, direct; 1 pump; 4 hydrants; pipe 1 mile; pressure 80 pounds. Village clerk, F. E. Hemingway.

Sharon, Norfolk Co., population 1,634; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton rubber lined good 1,500 ft; 1 horse, hired; value of fire department equipment \$1,300; value of buildings occupied \$2,000; total ann expenses of department \$314.03; total membership 54, paid \$2 per year and 50 c. per hour for fires; bell alarm; 1 hook and ladder company, 3 hose companies. Chief engineer, Walter H. Delano.*

WATER SUPPLY—Source, spring; system, pumping to standpipe and direct, cap 188,000 gals; pumping engines, dy cap 750,000 gals; 28 hydrants, pipe 7 miles, 6 to 2 in dia; 48 valves; 186 taps; pressure 40 to 78 pounds; waterworks owned by company; cost to construct \$40,000. Supt, E. E. Farnham.

Shelfield, Berkshire Co., population 1,954; fire area 25 acres; mercantile buildings, wood, 2 and 2 1/2 stories; dwellings, wood, 2 stories. No organized fire department.

WATER SUPPLY—Source, wells and cisterns. Town clerk, H. Clark.

Shelburne Falls, Franklin Co., population 2,500; fire area 2 sq miles; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft, leather inferior 250 ft; total ann expenses of department \$1,000; total membership 61; bell alarm. Chief engineer, D. C. Bartlett.

WATER SUPPLY—Source, mountain springs; system, gravity; 75 taps; 8 fire plugs; pipe 2 1/2 miles, 2 in dia; pressure, domestic 90 ft, head waterworks owned by company; cost to construct \$5,000; ann expenses \$60. Supt, L. T. Covell.

Shirley, Middlesex Co., population 1,195; fire area 9,328 acres; mercantile buildings, wood and brick, 2 1/2 stories; private, wood, 2 1/2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels (private), 8 chemical extinguishers, hooks and ladders, 1 hose carriage; hose, cotton good 500 ft, rubber poor 100 ft, linen poor 100 ft; 2 horses hired; value of fire department equipment \$800; value of buildings occupied \$1,800; total ann expenses of department \$2,200; total membership 45, paid full time 40, paid part time 5, Chief engineer, Henry A. Sawtell.

WATER SUPPLY—Source, wells and river.

Shrewsbury, Worcester Co., population 1,449; buildings, wood. Fire department—1 hand engine, 2 chemical extinguishers, buckets.

WATER SUPPLY—Source, wells and cisterns. Town clerk, G. E. Stone.

Somerset, Bristol Co., population 3,000; buildings, wood, 2 1-2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, life saving apparatus; hose, cotton good 1,500 ft; value of equipment \$4,000; total ann expenses of department \$200; total membership 65. Chief engineer, H. M. Wilson.

WATER SUPPLY—Source, river. Town clerk, Elisha Slade.

Somerville, Middlesex Co., population 45,000; fire area 2,700 acres; mercantile buildings, brick, 3 to 9 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 11 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds, 4 fuel wagons, 2 supply wagons, 1 spare truck and steamer; hose, cotton good 8,400 ft; 18 horses, value \$5,400; value of fire department equipment \$35,000; value of buildings occupied \$62,000; total ann expenses of department \$40,901; total membership 85, paid full time 14, paid part time 71; Gamewell alarm; 53 street

boxes; 2 engine companies, 1 hook and ladder company, 4 hose companies. Chief engineer, James P. Hopkins. Appropriation for 1894, \$43,000, also \$25,000 for a new central station; \$3,000 for a chemical engine, \$10,000 for new truck house, and \$5,000 new station in East Soumerville.

WATER SUPPLY—Source, Mystic Lake; system, pumping to reservoir and standpipe; reservoir cap 26,244,000 gals; standpipe cap 530,000 gals; pumping engines, dy cap 2,000,000 gals; 558 hydrants; pipe 68 miles, 30 to 4 in dia; 754 valves; taps 8,500; pressure, domestic 55 to 98, fire same pounds; waterworks owned by city and company; cost of construction to date \$907,594; ann expenses maintenance \$28,298; extensions \$35,700. Supt, Nathl. Dennett; city engineer, H. L. Eaton.

South Abington, Plymouth Co. (See Whitman.)

Southbridge, Worcester Co., population 8,000; mercantile buildings, brick, 3 stories; private, wood, 2-1-2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 8 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, portable fire escape, siamese couplings, 2 trucks equipped; hose, cotton rubber lined good 800 ft, leather good 3,400 ft; 13 horses; value of fire department equipment \$10,000; value of 2 buildings occupied \$9,500; total ann expenses of department \$3,700; total membership 55, volunteers; electric and whistle alarm; two 12 in. gongs; 17 street boxes. Chief engineer, C. E. Wilson.

WATER SUPPLY—Source, springs; system, gravity; 3 tanks of 17,000,000 gals cap each; 44 hydrants; pipe about 8 miles, 16 to 4 in dia; 32 valves; pressure 50 to 100 pounds; waterworks owned by company. Supt and treas. A. B. Goodier.

South Framingham, Middlesex Co. Fire department—(see Framingham).

WATER SUPPLY—Source, Farm pond and Sudbury river; system, direct pumping; pumping engines, dy cap 3,000,000 gals; 89 hydrants; pipe 17 miles, 2 to 16 in dia; pressure, domestic 80, fire 80 to 120 pounds; Edson pressure recording gauge; waterworks owned by company. Supt, Alfred E. Martin.

South Hadley Falls, Hampshire Co., population 4,261; fire area 2,560 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine (not in use), 1 hook and ladder truck, 3 hose carriages; siamese couplings used; hose, cotton good 2,500, poor 500 ft; total ann expenses of department \$410; total membership 30, paid part time; bell alarm. Chief engineer, F. Crosby.

WATER SUPPLY—Source, Buttery brook and leaping will reservoirs; system, gravity; cap of Buttery brook reservoir 4,000,000 gals; leaping will 29,000,000 gals; 67 hydrants; pipe 16 miles, 4 to 12 in dia; 40 valves; 510 taps; pressure 25 to 70 pounds; waterworks owned by fire district, no 1; cost to construct \$100,000; ann expenses \$1,200. Supt, M. L. Barnes.

South Weymouth, Norfolk Co. (See Weymouth.)

Spencer, Worcester Co., population 8,747; mercantile buildings, wood, stories; no fireworks ordinance; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 4,000 ft, inferior 1,400 ft, rubber good 200 ft; 8 horses, hired; value of fire department equipment \$10,000; value of buildings occupied \$20,000; expenses in 1894, \$3,500; 80 volunteer members; whistle alarm. Chief engineer, J. Edward Hemenway. (Proposed additions: steam and alarm system.)

WATER SUPPLY—Source, Shaw's Pond, 3 cisterns, 10 tanks; cap of tanks 54,000 gals; system, gravity; 88 hydrants; pipe 13 miles, 2 to 14 in dia; gates; pressure 75 pounds; cost to construct \$240,079; ann expenses \$888; Supt, Dexter Bullard.*

Springfield, Hampden Co., population 50,000; fire area 1,920 acres; mercantile buildings, brick, 5 stories; fireworks ordinance; causes of fire investigated. Fire department—7 steam fire engines, and 1 at U. S. Armory; 20 chemical extinguishers, 1 babcock, 3 hook and ladder trucks, 1 aerial truck, 3 hose wagons, 2 hose carts, siamese couplings used; hose, cotton good 15,200 ft, cotton 1 in 1,000 ft, leather poor 1,000 ft; 32 horses, value

\$7,000; value of fire department equipment \$98,788; value of buildings occupied \$162,000; total ann expenses of department \$70,000; total membership 172, paid full time 32; telegraph alarm; 67 street boxes. Chief engineer, W. J. Littlefield.

WATER SUPPLY—Source, streams and springs; system, gravity; impounding reservoir, cap 2,300,000,000 gals; distributing reservoir, cap 100,000,000 gals; 661 hydrants; pipe 103 miles, 4 to 30 in dia; 1,208 valves; taps 7,000; pressure, domestic 30, fire 80 to 110 pounds; pressure recording gauge; works owned by city; cost to construct \$1,645,933.70; cost to date \$1,660,141; ann expenses \$159,088. Supt, J. C. Hancock.

Sterling, Worcester Co., population 1,244; buildings, wood, 1½ and 2 stories. Fire department—3 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton 1,000 ft, linen good 200 ft; value of fire department equipment \$2,500; value of buildings \$600; total ann expenses of department \$57; total membership 24, volunteers; bell alarm. Chief engineer, H. W. Burpee.

WATER SUPPLY—Source, wells, 2 reservoirs, cap 18,000 gals.

Stockbridge, Berkshire Co., population 2,200; fire area 6 sq miles; mercantile buildings, wood, 2 and 2½ stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 500 ft; value of fire department equipment \$200; value of buildings occupied \$500; bell alarm.*

WATER SUPPLY—Source, Lake Arerico; system, gravity; pumping engines, dy cap 1,400,000 gals; 40 hydrants; pipe 8½ miles, 6 to 10 in dia; quality of water fine; pressure, domestic 25 to 30 pounds; fire 85 to 100 pounds; waterworks owned by company. D. A. Kimball, manager.

Stoneham, Middlesex Co., population 6,155; buildings, brick and wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 2 hose wagons, 1 supply wagon; hose, cotton good 5,000 ft, inferior 2,000 ft; value of equipment \$13,200; value of buildings \$4,000; ann expenses \$4,200; total membership 65, paid part time; Gamewell alarm; 19 street boxes. Chief, Geo. E. Sturtevant.

WATER SUPPLY—Source, Wakefield Water Co. (see Wakefield); 2 cisterns, 19 tanks, 4 pumps; 62 hydrants; pipe about 25 miles, 12 to 4 in dia; 800 taps; pressure 85 pounds. Supt, R. J. Cladbourne; J. A. Jones, Supt, Stoneham.

Stoughton, Norfolk Co., population 4,832; mercantile buildings, wood, 2 stories; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; siamese couplings used; hose, cotton good 800 ft, leather good 510 ft; value of fire department equipment \$7,000; value of 3 buildings occupied \$2,000; total ann expenses of department \$2,100; total membership 55, paid full time; bell alarm.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 318,000 gals; pumping engines, dy cap 500,000 gals; 20 hydrants; pipe 6 miles, 8 to 10 in dia; 25 meters; pressure 65 pounds; waterworks owned by company; cost to construct \$50,000. Supt, Frank F. Phinney.*

Sturbridge, Worcester Co., population 2,074; mercantile buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 chemical extinguishers; bell alarm.

WATER SUPPLY—Source, wells; system, gravity. Town clerk, A. B. Chamberlain.

Sunderland, Franklin Co., population 633; fire area 8,641 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—hand pumps, rubber hose, bell alarm.*

WATER SUPPLY—Source, spring, system, gravity; 1 well 4 ft in dia; pipe 3 miles, 1½ in dia; 4 valves; quality of water good, not filtered; pressure, domestic 80, fire same; works owned by company; cost to construct \$2,200; ann expenses \$20. Supt, N. Austin Smith.*

Sutton, Worcester Co., population 3,180; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; no fireworks ordinance. No organized fire department.

WATER SUPPLY—Source, wells.

Swampscott, Essex Co., population 3,350; mercantile buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hand hose carriages, 1 supply wagon, 1 hose wagon; hose, cotton good 6,000 ft; 5 horses, value \$1,500; ann expenses \$4,000; total membership 22, paid full time; telegraph alarm; 15 street boxes. Chief engineer, Geo. P. Cahoon.

WATER SUPPLY—Source, driven wells; system, pumping direct; cap of standpipe 351,000 gals; dy cap of pumps 1,250,000 gals; 114 hydrants; pipe 15 miles, 4 to 12 in dia; 80 valves; pressure 60 pounds; 900 taps; waterworks owned by company; cost to construct \$100,000; ann expenses \$3,000; Pres of com, Thos. Appleton; supt, Kendall Pollard.

Taunton, Bristol Co., population 27,000; fire area 26,600 acres; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 1½ and 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 chemical engine on wheels, 16 chemical extinguishers, 2 hook and ladder trucks, 8 hose carriages, all kinds, 4 hose wagons; hose, cotton good 12,900 ft, inferior 1,500 ft; 16 horses, value \$3,500; value of fire department equipment \$85,000; value of buildings occupied \$80,000; total ann expenses of department \$21,600; total membership 144, paid full time 16, paid part time 80, volunteer members 48; Gamewell alarm; 65 street boxes; 12 fire companies, 4 engine companies, 2 hook and ladder companies, 6 hose companies. Chief engineer, Abner Coleman. (Proposed addition: aerial truck.)

WATER SUPPLY—Source, ground water with Taunton river for emergency; system, pumping direct; reservoir cap 7,000,000 gals; pumping engines, dy cap 12,000,000 gals; 658 hydrants; pipe 69.04 miles, 4 to 30 in dia; 452 valves; 3,635 taps; pressure, domestic 55, fire 100 to 110 pounds; waterworks owned by city; original cost to construct \$253,933.17; expenses of construction to date \$661,946; ann expenses \$15,000. Supt, George F. Chase.

Templeton, Worcester Co., (includes Otter river, East Templeton, Baldwinville and Templeton Centre.) population 3,000; fire area 20,000 acres; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 4 hand engines, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,700 ft, rubber good 500 ft; leather good 250 ft, linen good 350 ft; value of fire department equipment \$6,800; value of buildings occupied \$3,000; total ann expenses of department \$3,000; total membership 200, volunteer members 200; steam whistle and bell alarm. Chief engineer, A. T. Harris.

WATER SUPPLY—Source, reservoirs supplied by springs, wells and river.

Tisbury, Middlesex Co., population 2,575. (See Vineyard Haven.)

Topfield, Essex Co., population 1,100; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck and a good supply of hooks, ladders, etc.; value of fire department equipment \$300; value of buildings occupied \$250; total ann expenses of department \$25; membership 5, volunteers; bell alarm. Fire warden, C. A. Kneeland.

WATER SUPPLY—Source, wells and cisterns. **Townsend, Middlesex Co.,** population 1,750; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton good 1,800 ft; total ann expenses of department \$400; total membership 70, volunteers; bell alarm. Chief engineer, A. D. Fessenden.

WATER SUPPLY—Source, wells, river and creek.

Turner's Falls, Franklin Co. (Included in Montague.)

Upton, Worcester Co., population 1,878; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton 500 ft, poor 200 ft, leather good 200 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total expenses

\$754; total membership 65, paid part time 65; bell alarm. Chief, Geo. E. Childs.

WATER SUPPLY—Source, 3 springs and 1 well; system, gravity; pipe 1 mile, 1 in dia; 40 valves; 18 taps; owned by the Upton Lead Aqueduct Co; ann expenses \$150. Supt, G. E. Southland.

Uxbridge, Worcester Co., population 3,408. Fire department—2 hand engines, 2 hose carriages; hose, linen good 800 ft, leather good 400 ft; total membership 10, paid part time.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 375,000 gals; 29 hydrants; pipe 3 miles, 6 and 4 in dia; 21 valves; 142 taps; pressure 62 pounds; waterworks owned by city; cost to construct \$27,500; cost to date \$28,000; ann expenses \$2,170. Supt, W. E. Rawson.

Vineyard Haven, Dukes Co., population 1,000; fire area 150 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft; value of fire department equipment \$1,600; ann expenses \$160; total membership 52, volunteers; church bells alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, William Buckley.

WATER SUPPLY—Source, springs; system, pumping to standpipe, cap 117,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 15; pipe 5 miles, 14 to 4 in dia; 5 meters; 70 valves; 220 taps; pressure 40 to 70 pounds; works owned by company. Supt, A. F. Cummings.

Wakefield, Middlesex Co., population 7,000; area 4,000 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 3 chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages, 1 hose wagon, 1 supply wagon; hose, cotton good 4,100 ft; value of equipment \$9,000; value of buildings occupied \$10,000; ann expenses \$3,500; membership 94, paid part time, and volunteers; independent company; bells, Stevens alarm; 14 street boxes. Chief engineer, Levi Falanders.

WATER SUPPLY—Source, Crystal lake; system, pumping to standpipe and direct; standpipe cap 565,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 83 double hydrants, pressure 80 pounds; waterworks owned by company. Supt, G. W. Harrington.*

Wales, Hampden Co., population 700; buildings, wood, 3 and 4 stories; wooden roofs permitted. Fire department—2 hand engines, 5 chemical extinguishers, 2 hose carriages; hose, linen good 1,000 ft; value of fire department equipment \$1,000; total ann expenses of department \$300; total membership 30, paid full time; bell alarm. Chief engineer, E. A. Clark.*

WATER SUPPLY—Source, stream; system, gravity. Town clerk, A. H. Hubbard.*

Walpole, Norfolk Co., population 2,604; buildings, wood. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,600 ft; value of fire department equipment \$1,650; bell and whistle alarm. Chief engineer, F. E. Green.*

WATER SUPPLY—Source, streams and wells. Town clerk, Geo. P. Morey. (Works contemplated.)

Waltham, Middlesex Co., population 22,000; fire area 7,694 acres; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage, and 2 in reserve; 5 hose wagons; hose, cotton good 7,000 ft, inferior 800 ft; 15 horses, value \$3,500; value of fire department equipment \$45,000; value of buildings occupied \$63,000; total ann expenses of department \$19,294; total membership 82, paid full time 10, paid part time 72; Gamewell alarm; 47 street boxes. Chief engineer, Chas. H. Parks.

WATER SUPPLY—Source, ground water; system, pumping to reservoir and direct; reservoir cap 8,000,000 gals; pumping engines, dy cap 3,000,000 gals; 250 hydrants; pipe 48 miles, 4 to 24 in dia; 509 valves; taps 3,028; pressure, domestic 55 pounds, fire same; works owned by city; cost to construct to date \$519,000; ann expenses \$12,000. Supt, Geo. E. Winslow.

Ware, Hampshire Co., population 7,329; mercantile buildings, brick, 3 to 5 stories; private, wood, 1 1/2-2 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, all kinds; hose, cotton good 3,600 ft, inferior 600 ft; 3 horses, hired; value of fire department equipment \$12,000; value of buildings occupied \$8,000; total ann expenses of department \$5,500; membership 120, volunteers; Gamewell alarm; 15 street boxes; 9 fire companies, 1 engine company, 1 hook and ladder company, 6 hose companies. Chief engineer, T. C. Gleason.

Water Supply—Source, collecting well; system, pumping to reservoir; reservoir cap 1,567,663 gals; pumping engines, dy cap 1,500,000 gals; 75 hydrants; pipe 9 miles, 4 to 12 in dia; 87 valves; pressure 35 to 100 pounds; works owned by town; cost to construct \$87,654; ann expenses \$5,300. Pres, John Kennedy; supt, Thomas C. Gleason.

Warren, Worcester Co., population 5,000; fire area 2 miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, not in use; 7 chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages, siamese couplings used; hose, cotton good 3,000 ft, linen inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$4,000; total ann expenses of department \$1,700; total membership 92, paid; whistle and bell alarm. Chief engineer, B. F. Tourtellotte. (Contemplated: 2 hose wagons and electric alarm system.)

Water Supply—Source, ponds, river and brooks; system, direct pumping; 1 reservoir; 24 hydrants; pipe 4 to 6 in dia; pressure 100 pounds ann expenses \$1,600. Town clerk, C. B. Blair.

Watertown, Middlesex Co., population 8,000; fire area 2,051 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, 1 supply wagon; hose, cotton good 3,000 ft; 6 horses, value \$1,800; value of fire department equipment \$8,000; value of buildings occupied \$120,000; total ann expenses of department \$6,500; membership 34, paid full time 4, paid part time 30, volunteer members 10; Gamewell alarm; 19 street boxes. Chief engineer, Henry Horne.

Water Supply—Source, wells; system, pumping to standpipe, cap 275,000 gals; pumping engines, dy cap 2,500,000 gals; 215 hydrants; pipe 27 1/2 miles, 14 to 6 in dia; 275 valves; 1,100 taps; quality of water good; pressure 90 to 75 pounds; works owned by company; cost to construct \$312,500; ann expenses \$15,500. Supt, John H. Perkins.

Waverley, Middlesex Co., population 800; fire area 500 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage, one hand hose reel; hose, linen good 2,000 ft; 1 horse, value \$700; membership 11, paid part time; Stevens alarm; 13 street boxes. Resident engineer, E. C. Benton.

Water Supply—Source, Watertown Water Co.; hydrants 15; pipe 4 miles, 4 to 8 in dia; pressure 40 to 80 pounds; works owned by town. G. C. Holt, chairman of water board.

Wayland, (Village of Cohasset) Middlesex Co., population 2,060; buildings, wood, 2 and 4 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton 1,000 ft, leather good 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,600; total ann expenses of department \$800; total membership 40, volunteers; Stevens alarm; 5 street boxes. Chief engineer, Ralph Bent.

Water Supply—Source, not stated; system, gravity and direct pumping; 83 hydrants; pipe 5 miles, 4 to 10 in dia; 12 gates; pressure 88 pounds; cost to construct \$28,000; ann expenses \$300. Supt, Henry G. Dudley.

Webster, Worcester Co., population 7,030; fire area 9,000 acres; mercantile buildings, wood and brick, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton

good 3,000 ft; value of fire department equipment \$6,500; value of buildings occupied \$15,000; total ann expenses of department \$2,500; total membership 64, paid part time; 1 engine company, 1 hook and ladder company, 2 hose companies; Municipal alarm; 15 street boxes. Chief engineer, L. E. Pattison.

Water Supply—Source, filter well near Lake Chaubunagungdmany; system, pumping to standpipe; standpipe cap 585,562 gals; pumping engines, dy cap 1,040,000 gals; hydrants 100; pipe 7 miles, 16 to 3 in dia; taps 400; pressure 60 to 100 pounds; waterworks owned by city; expenses of construction to date \$90,000. Chairman of water board, John Flint.

Wellesley, Norfolk Co., population 4,000; buildings, wood, 2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 4 hose carriages; hose, cotton 1,000 ft, rubber good 2,300 ft, poor 300 ft, rubber good 700 ft; value of fire department equipment \$4,300; value of fire department buildings \$2,000; total ann expenses of department \$2,000; total membership 33; electric and whistle alarm; 11 boxes. Chief engineer, D. F. Warren. (Proposed equipment: 2 hose wagons, 1,000 ft cotton hose.)

Water Supply—Source, wells; system, pumping direct and to reservoir; reservoir cap 1,150,000 gals; pumping engines, dy cap 1,000,000 gals; 178 hydrants; pipe 24 miles; 157 valves; 611 taps; pressure 40 to 115 pounds; waterworks owned by town; cost to construct \$200,000, to date \$214,674; ann expenses \$3,500. Supt, W. H. Vaughn.

Wellfleet, Barnstable Co., population 1,291; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck.*

Water Supply—Private wells and cisterns.*

Wenham, Essex Co., population 896; buildings, wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage, hooks and ladders; hose, linen good 300 ft, rubber good 300 ft; value of fire department equipment \$800; total membership 40, paid; bell alarm. Chief engineer, Herbert W. Porter.

Water Supply—Source, wells, springs, cisterns and ponds. Town clerk, W. Pool.

Westborough, Worcester Co., population 5,195; fire area 12,137 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3,700 ft; value of fire department equipment \$5,000; value of buildings occupied \$13,000; total ann expenses of department \$3,275; total membership 63; electric bell and whistle alarm. Chief engineer, H. L. Chase.

Water Supply—Source, Sandea pond; system, gravity; reservoir cap 120,000,000 gals; 61 hydrants; pipe 13 miles, 4 to 16 in dia; 87 valves; pressure 58 pounds; waterworks owned by town; cost to construct \$195,093, to date \$231,406; ann expenses \$1,449. Supt, J. B. Putnam.

West Boylston, Worcester Co., population 3,019; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—2 hand engines, 2 hook and ladder trucks.

Water Supply—Source, wells and cisterns. (Waterworks contemplated.)

West Brookfield, Worcester Co., population 1,600; fire area 700 acres; mercantile buildings, wood, 2 to 4 stories; private, wood, 2 stories; shingle and slate roofs; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 3 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; siamese couplings used; hose, cotton rubber lined 1,800 ft, linen 300 ft, leather 300 ft; value of fire department equipment \$6,500; value of buildings occupied \$1,000; total ann expenses of department \$400; total membership 40, volunteers; bell alarm. Chief engineer, Win. H. Allen, Jr.

Water Supply—Source, brook; system, gravity; reservoir cap 1,500,000 gals; 3 hydrants; pipe 2 miles; gates; pressure 20 pounds; waterworks owned by town; cost to construct \$2,500. Supt, John G. Shackley.*

Westfield, Hampden Co., population 10,000; fire area 3,000 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs

permitted. Fire department—1 steam fire engine not used, 2 chemical engines on wheels, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons, siamese couplings used; 8 horses; value of department equipment \$10,000; value of department buildings \$3,000; total ann expenses of department \$6,000; total membership 63, paid; Gamewell alarm; 17 street boxes. Chief engineer, Geo. H. Byers.

WATER SUPPLY—Source, Moose Meadow; system, gravity; storage reservoir cap 184,000,000 gals; distributing reservoir cap 4,500 gals; 143 hydrants; pipe 27 miles, 4 to 14 in dia; valves; pressure 127 pounds; waterworks owned by town; cost to construct \$271,000; ann expenses \$2,500. Supt, C. H. Diels.*

Westford, Middlesex Co., population 2,250; mercantile buildings, wood, 2 stories; private, wood and brick, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—axes, ladders and small force pumps.

WATER SUPPLY—Source, wells. Town Clerk, G. J. Wright.

West Gardiner, Worcester Co. (See Gardiner.)

Westminster, Worcester Co., population 1,688; fire area 2,200 acres; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 hand engines, 3 hose carriages; hose, cotton good 1,000 ft, rubber good 200 ft; value of apparatus \$500; value of buildings occupied \$700; expenses for past year \$350; total membership 60, paid full time; bell and whistle alarm. Chief, D. C. Miles.

WATER SUPPLY—Source, 1 large cistern, cap 600 gals, also private wells.

West Newbury, Essex Co., population 1,796; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage; hand pumps; hose, cotton good 2,000 ft; value of fire department equipment \$7,000; total ann expenses of department \$350; total membership 18, volunteers; bell and whistle alarm. Chief engineer, Gilman W. Brown.

WATER SUPPLY—Source, river and wells; 4 reservoirs, cap 15,000 gals each.

Westport, Bristol Co., population 2,599; fire area 15 miles long by 4 miles wide; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance; no organized fire department.

WATER SUPPLY—Source, wells; system, pumping to reservoir cap 1,500 gals; works owned by company, cost \$3,000. A. Manchester, supt.

West Springfield, Hampden Co., population about 5,800; fire area 1,100; buildings, brick and wood, 3 stories. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,150 ft; value of equipment \$3,200; value of buildings occupied \$2,500; total expenses \$1,000; total membership 47; bell alarm. Chief engineer, N. A. Tinkham.

WATER SUPPLY—Source, Darby brook; system, gravity; impounding reservoirs; 44 hydrants; 12 miles pipe; waterworks owned by town; pressure 35 pounds; cost to construct \$75,000. Supt, M. L. Tourtelotte.*

West Stockbridge, Berkshire Co., population 1,492; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; no fire department.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap, 12 to 15,000 gals; pipe 3 miles, 6, 4 and 3 in dia; 7 valves; 40 taps; pressure 175 to 200 pounds; works owned by company; cost to construct \$4,000; ann expenses \$80 to \$75. Supt, J. S. Moore.

Weymouth, Norfolk Co., (P. O. address Weymouth Center) population 12,000; fire area 9,000 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 chemical engine, 4 hook and ladder trucks, 4 hose carriages, 3 hose wagons; hose, cotton good 8,500 ft, rubber good 300 ft, inferior 300 ft; value of fire department equipment \$13,000; value of buildings occupied \$12,000; total ann expenses of department \$6,000; total membership 172, volunteers; Game-

well alarm; 22 street boxes. Chief engineer, F. D. Thayer.

WATER SUPPLY—Source, Weymouth Great pond; system, gravity and pumping to standpipe and direct; standpipe cap 703,880 gals; pumping engine, 4 hp cap 3,000,000 gals; 333 hydrants; pipe 50½ miles, 1 to 20 in dia; 407 valves; 4 meters; pressure, domestic 50 to 60, fire 70 to 100 pounds; waterworks owned by town; cost to construct \$400,000; ann expenses \$22,000. Chairman of com, A. J. Richards; supt, Geo. J. Ries.*

Whitinsville, Worcester Co., population 3,000; mercantile buildings, brick and wood, 2½ to 4 stories; private, wood, 1½ and 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, linen good 12,000 ft; value of fire department equipment \$3,000; total ann expenses of department \$1,000; total membership 63, paid full time; bell and electric alarm. Chief engineer, J. C. Taft.

WATER SUPPLY—Source, springs; system, gravity from reservoirs, cap 580,000 gals; pumping engines, 4 hp cap 43,000 gals; 50 hydrants; pipe 17 miles, 8 to 4 in dia; pressure 50 to 100 pounds. Free, C. W. Lasell.

Whitman, Plymouth Co., population 5,700; buildings, brick and wood, 1 to 4 stories. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton good 5,100 ft; value of fire department equipment \$10,500; total ann expenses of department \$2,000; total membership 75, paid part time; bell and whistle alarm. Chief engineer, A. H. Peterson.

WATER SUPPLY—Source, well and pond; system, pumping to standpipe, cap 240,000 gals; pumping engines, 4 hp cap 2,250,000 gals; 108 hydrants; pipe 14 miles; 72 valves; 775 taps; pressure 65 pounds; waterworks owned by town; cost to construct to date \$112,000; ann expenses \$3,305. Supt, J. C. Gilbert.

Wilbraham, Hampden Co., population 700; buildings, brick and wood, 2 stories. Fire department—1 hook and ladder truck, value \$100; buildings \$50; total membership 25, volunteers; bell alarm. Chief engineer, C. G. Robbins.

WATER SUPPLY—Source, wells and springs.

Williamstown, Hampshire Co., population 2,057; fire area 1,000 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 2 hose carriages; hose, cotton 400 ft, rubber 200 ft, leather 100 ft; value of fire department equipment \$5,000; value of 2 buildings occupied \$2,000; membership 50, paid part time 50, volunteers 6; bell alarm. Chief engineer, A. Bailey.

WATER SUPPLY—Source, river and springs.

Williamstown, Berkshire Co., population 4,251; mercantile buildings, wood, stone and brick, 3 and 4 stories; private, wood, 3 stories; wooden roofs permitted; no fireworks ordinance. No fire department—Boston Finishing Co. have Co. with hose, College has hose.

WATER SUPPLY—Source, springs; system, gravity; 2 reservoirs; 20 hydrants; pipe 15 miles, 3, 6 and 8 in dia; waterworks owned by company; cost to construct \$75,000; ann expenses \$500. Supt, Chas. G. Sandford.

Winchendon, Worcester Co., population 4,500; mercantile buildings, wood and brick, 2 to 4 stories; private, wood, 1½ to 3 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hand engine, 3 hose carriages; siamese couplings used; hose, cotton good 3,500 ft, leather good 1,200 ft, 4 hoses; value of fire department equipment \$13,000; value of 2 buildings occupied \$5,000; total ann expenses of department \$2,000; total membership 98, paid part time; Stevens alarm; 13 street boxes. Chief engineer, E. M. Whitney.

WATER SUPPLY—Source, river, ponds and 10 cisterns. Waterworks projected. Town clerk, Geo. M. Whitney.

Winchester, Middlesex Co., population 5,000; fire area 9 sq miles; mercantile buildings, brick and wood, 3 and 4 stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine (not in service) 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,000 ft, inferior 2,500 ft; 6 hoses; expense for 1894, \$5,500; total membership 50, paid full time 3

paid part time 32; 27 street boxes. Chief engineer, Fred. M. Symmes.

WATER SUPPLY—Source, surface; system, gravity and pumping to high service reservoir; impounding reservoir, cap 260,000,000 gals; high service reservoir cap 100,000 gals; pumps cap 100,000 gals in 10 hours; 99 hydrants; pipe 26 miles, 2 to 12 in dia; 160 valves; 1,200 taps; pressure 45 pounds; waterworks owned by town; cost to construct \$165,000; ann expenses \$3,000. Supt. Wm. T. Dotten.

Winthrop, Suffolk Co., population 2,851; fire area 150 acres; buildings, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hook and ladder trucks, 2 hose carriages, 2 hose wagons, 1 net and chute; hose, cotton good 4,500 ft; value of fire department equipment \$7,033; value of buildings occupied \$3,500; total ann expenses of department \$205; total membership 51; Stevens alarm; 15 street boxes; 1 hook and ladder company, 8 hose companies. Chief engineer, E. B. Floyd.

WATER SUPPLY—Source, Reverse Water Co. (see Reverse); 60 hydrants; pipe 18 miles, 4 to 10 in dia; 105 valves; pressure 80 pounds; 927 taps. Supt. A. S. Burnham.

Woburn, Middlesex Co., population 15,300; fire area 7,885 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 10 chemical extinguishers, 7 hose wagons; hose, cotton 5,000 ft, inferior 2,750 ft; 12 horses, value \$2,600; value of fire department equipment \$32,000; value of 7 buildings occupied \$38,000; total ann expenses of department \$10,730; total membership 68, paid full time 4, paid part time 62; telegraph alarm; 35 street boxes. Chief engineer, A. A. Fenin.

WATER SUPPLY—Source, filter gallery near Horn pond; system, pumping to reservoir and direct; reservoir cap 8,000,000 gals; pumping engines, dy cap 4,000,000 gals; 311 hydrants; pipe 49 miles, 4 to 14 in dia; 266 valves; 38 meters; 2,369 taps; pressure 45 to 95 pounds; waterworks owned by city; cost to construct to date \$567,311.62; ann expenses \$1,033.61. Supt. P. C. Crilly. *

Worcester, Worcester Co., population 84,655;

fire area 36 sq miles; mercantile buildings, brick and stone, 4 to 7 stories; private, brick and wood, wooden roofs not permitted inside of fire limits; fireworks ordinance; causes of fire investigated. Fire department—5 steam fire engines, 1 reserve, 3 chemical engines on wheels, 19 chemical extinguishers, 1 hook and ladder truck, 2 aerial trucks, 15 hose carriages, all kinds, 1 supply wagon; hose, cotton good rubber lined and linen 25,350 ft; 38 horses, value \$9,600; value of fire department equipment \$109,000; value of buildings occupied \$277,113; total ann expenses of department \$123,994; total membership 170, paid full time 70, part time 100; Gamewell alarm; 133 street boxes; fire patrol 8 men 1 patrol wagon, 200 covers. Chief engineer, E. L. Vaughn.

WATER SUPPLY—Source, Holden and Leicester; system, gravity; reservoir cap 1,454,000,000 gals; 1,270 hydrants; pipe 134½ miles, 4 to 30 in dia; 1,423 valves; 1,075 taps; cement lined service pipe; pressure, domestic 40 to 70, fire 70 to 140 pounds; waterworks owned by city; cost to construct \$350,627.84; net cost to Nov. 30, 1893, \$2,640,301; ann expenses \$83,640. Supt. John G. Brady; water register, George E. Batheider.

Wrentham, Norfolk Co., population 2,566; fire area 12 miles; mercantile buildings, wood, 2 stories; dwellings, wood, 3 stories. Fire department—1 hand engine, force pump owned by factory; 1 hose company. Town clerk, D. T. Stone.

Yarmouth, Barnstable Co., population 1,760; fire area 10,000 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 hook and ladder trucks; value of fire department equipment \$900. *

WATER SUPPLY—Source, wells and cisterns.

Places having a population of 1,000 and upward that have no fire protection: Auburn, Worcester Co., population 1,532; Barnstable, Barnstable Co., population 4,023; Dartmouth, Bristol Co., population 3,122; Granville, Hampden Co., population 1,061; Seekonk, Bristol Co., population 1,310; Sherborn, Middlesex Co., population 1,381; Sudbury, Middlesex Co., population 1,197; Wareham, Plymouth Co., population 3,451.

MICHIGAN.

Adrian, Lenawee Co., population 8,736; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 6,000 ft, rubber inferior 1,000 ft, leather inferior 700 ft; 10 horses, value \$250; total membership 32, paid full time 6, paid part time 26; Gamewell alarm. Chief engineer, H. Bowen. *

WATER SUPPLY—Source, wells; system, pump to reservoir and direct; reservoir cap 3,500,000 gals; pumping engines, dy cap 4,000,000 gals; 135 hydrants; pipe 17½ miles, 6 to 18 in dia; valves 26 meters; quality of water good; pressure, domestic 40, fire 80 to 100 pounds; works owned by company; cost to construct \$350,000; and expenses \$7,800. Supt. Abram Wing.

Albion, Calhoun Co., population 5,175; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 3,000 ft, inferior 500 ft; 2 horses, value \$500; value of fire department equipment \$8,500; value of buildings occupied \$4,000; total ann expenses of department \$2,000; total membership 22, paid full time 2, volunteer members 20; bell and whistle alarm. Chief engineer, F. W. Peabody.

WATER SUPPLY—Source, drilled wells; system, pump to reservoir and standpipe, 138 ft high, 16 in dia; pumping engines, dy cap 200,000 gals; 89 hydrants; pipe 9½ miles, 12 to 4 in dia; 42 valves; pressure 78 pounds; works owned by city; cost to construct \$60,000. Supt. F. W. Peabody.

Allegan, Allegan Co., population 2,669; fire area 28 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 1½ stories; wooden roofs not permitted on new or repaired

buildings in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,400 ft, rubber good 1,200 ft, linen 250 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; total ann expenses of department \$400; total membership 60, volunteers; bell alarm. Chief engineer, David Frank. *

WATER SUPPLY—Source, well; system, pumping direct; pumping engines, dy cap 1,125,000 gals; 54 hydrants; pipe 8½ miles, 8 to 4 in dia; 28 valves; 436 taps; pressure, domestic 35, fire 100 pounds; works owned by village; cost to construct \$30,000; ann expenses \$1,500. Supt. M. D. Dyer.

Alma, Gratiot Co., population 1,800; fire area 600 acres; mercantile buildings, brick, stone and wood, 1-1-2 stories; private, wood; wooden roofs permitted; no fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, poor 500 ft, rubber good 500 ft; value of equipment \$5,000; value of buildings occupied \$2,000; ann expenses \$100; total membership 60, paid part time; bell and whistle alarm; 3 fire companies, 2 hose companies, 1 hook and ladder company. Chief, Chas. Flahbeck.

WATER SUPPLY—Source, Pine river; system, direct; pumps; 45 hydrants; pipe 5 miles; gates; pressure, domestic 30, fire 90 pounds; waterworks owned by village; cost to construct \$10,000; to date \$20,000; ann expenses \$1,300. Supt. M. Montigel.

Almont, Lapeer Co., population 882; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 300 ft, inferior 300 ft. Foreman, Chas. A. Fatin.

WATER SUPPLY—Source, well, creek and cisterns; system, pumping to tank; reservoir cap 1,000 bbls; hydrants 7; pipe 1-2 mile, 6 in dia;

waterworks owned by village; cost to construct \$2,900. Village clerk, A. H. Patterson.

Alpena, Alpena Co., population 9,970; buildings, wood and brick, 2 stories; shingle roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 4,000 ft, poor 1,000 ft; 6 horses, value \$1,000; value of equipment \$15,000; value of buildings occupied \$6,000; expenses of department \$5,000; total membership \$2, paid full time 3, paid part time 19; telegraph alarm; 25 street boxes. Chief engineer, William Sterling.

WATER SUPPLY—Source, Lake Huron; system, direct pumping; pumping engines, dy cap 3,000, 000 and 5,000,000 gals; also a set of Holly pumps run by turbine wheel for additional fire protection; 150 hydrants; pipe 25 miles, 4 to 16 in dia; pressure, domestic 30, fire 100 pounds; waterworks owned by company; cost to construct \$250,000; ann expenses \$7,000. Pres and supt, W. H. Johnson.*

Ann Arbor, Washtenaw Co., population 13,000; fire area 1,600 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose wagons; hose, cotton good 4,000 ft; 6 horses, \$800; value of fire department equipment \$7,000; value of buildings occupied \$18,000; total ann expenses of department \$6,140; total membership 13, paid full time 8, paid part time 5; bell and telephone alarm. Chief engineer, Fred Siple.

WATER SUPPLY—Source, springs and wells; system, pumping to reservoir; reservoir cap 2,200,000 gals; pumping engines, dy cap 2,200,000 gals; 137 hydrants; pipe 28 miles, 4 to 16 in dia; 98 valves; 30 meters; pressure 65 to 100 pounds; waterworks owned by company; cost to construct \$255,000; ann expenses \$5,500; int on bonds 6 per cent. Pres and supt, A. W. Hamilton.*

Au Sable, Iosco Co., population 4,328; buildings, wood, 2 stories; private, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carts; hose, cotton good 3,500 ft, linen 1,000 ft; value of apparatus \$3,125; value of buildings \$1,200; ann expenses \$341; total membership 27, paid part time; whistle and bell alarm. Chief engineer, James Quinn.

WATER SUPPLY—Source, AuSable river; system, direct pumping; pumping engines, dy cap 1,500,000 gals; 70 hydrants; pipe 5 miles, 4 to 12 in dia; pressure, domestic 50, fire 150 pounds; waterworks owned by town; cost to construct \$35,000; ann expenses \$1,800. Supt, J. S. Duncan.

Bangor, VanBuren Co., population 2,384; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose cart; total membership volunteers. Chief engineer, Fred E. Beers.

WATER SUPPLY—Source, 4 public cisterns, owned by city, cost \$2,500. Town clerk, A. B. Chase.

Battle Creek, Calhoun Co., population 18,000; fire area 3 miles; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 8 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 4,500 ft; 8 horses, value \$1,200; value of equipment \$12,000; value of buildings occupied \$12,000; ann expenses \$7,000; total membership 24, paid full time 6, paid part time 18; Gamewell alarm; 23 street boxes. Chief engineer, W. P. Weeks.

WATER SUPPLY—Source, Gogneau lake; system, pumping to standpipe; standpipe cap 143,000 gals; pumping engines, dy cap 4,000,000 gals; 216 hydrants; pipe 22 miles, 4 to 16 in dia; 189 valves; caps 1,313; pressure 65 to 85 pounds; works owned by city; cost to construct \$105,000, to Dec. 31, 1893, \$201,432; ann expenses \$7,218. Supt, W. W. Brinden.

Bay City, Bay Co., population 30,700; fire area 179 acres; mercantile buildings, brick and stone, 2 to 6 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemi-

cal extinguishers, 1 hook and ladder truck, 1 aerial truck, 6 hose carriage, all kinds; hose, cotton good 3,000 ft, inferior 1,500 ft, rubber good 9,000 ft, inferior 2,000 ft; 19 horses, value \$6,375; value of fire department equipment \$37,000; value of buildings occupied \$44,600; total ann expenses of department \$26,395.59; total membership 51, paid full time 13, paid part time 38; Gamewell alarm; 67 street boxes. Chief engineer, Thomas K. Harding. (Will build a fire boat at cost of \$25,000.)

WATER SUPPLY—Source, Saginaw Bay; system, pumping direct; Holly pumping engine, dy cap 10,500,000 gals; 386 hydrants; pipe 43 miles, 3 to 20 in dia; 640 valves; 1,900 taps; pressure, domestic 40, fire 80 to 120 pounds; works owned by city; cost to construct to date \$552,000; ann expenses \$12,600. Supt, E. L. Dunbar.

Bellaire, Antrim Co., population 900; fire area 300 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 500 ft; value of fire department equipment \$350; value of buildings occupied \$250; 24 volunteer members; bell alarm. Chief engineer, A. J. Clark.

WATER SUPPLY—Source, Cedar river; system, pumping to reservoir; reservoir cap 200,000 gals; pumping engines, dy cap 100,000 gals; 14 hydrants; pipe 5 miles, 6, 4 and 3 in dia; pressure 75 pounds; works owned by company; cost to construct \$6,000, to date \$15,000. Supt, Henry Richard.

Benton Harbor, Berrien Co., population 9,000; fire area 500 acres; mercantile buildings, brick, wood and stone, 3 stories; private, brick and wood, 1-2 to 4 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriage, 1 hose wagon; hose, cotton good 2,000 ft, rubber good 1,000 ft, inferior 750 ft; 2 horses, value \$350; value of fire department equipment \$149,000; value of buildings occupied \$9,000; total ann expenses of department \$3,000; total membership 51, paid full time 2, paid part time 49; bell alarm. Chief engineer, J. A. Crawford. (Hook and ladder and fire alarm system contemplated.)

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 88,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 94; pipe 15 1-3 miles, 4 to 10 in dia; 31 valves; 500 taps; pressure, domestic 48, fire 60 to 125 pounds; waterworks owned by city; cost to construct \$98,000; cost to date \$100,000; ann expenses \$2,500. Supt, Geo. F. Rounds.

Bessemer, Gogebic Co., population 2,566; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; no organized department.*

WATER SUPPLY—Source, creek; system, pumping to standpipe, cap 132,536 gals; dy cap 2 pumps of 150,000 gals each; pipe 4 miles, 8 to 4 in dia; 83 hydrants; valves 25; pressure 80 to 100 pounds, fire 137 to 167 pounds; works owned by city; cost to construct \$50,000; ann expenses, \$3,000. Supt Geo. T. Williams.

Big Rapids, Mecosta Co., population 6,000; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; slammec couplings used; hose, cotton rubber lined good 3,800 ft; 2 horses, value \$400; value of fire department equipment \$8,000; value of buildings occupied \$2,500; ann expenses \$1,500; total membership 54, paid part time; Gamewell Alarm Co system; 28 street boxes. Chief engineer, E. W. Ford.

WATER SUPPLY—Source, driven wells; system, direct pumping; reservoir cap 30,000 gals; 2 pumping engines, dy cap 3,000,000 gals; 88 hydrants; pipe 13 miles, 4 to 16 in dia; pressure, domestic 50, fire 100 pounds; waterworks owned by town; cost to construct \$75,000; to date \$140,000; ann expenses \$2,500. Supt, E. W. Ford.

Birmingham, Oakland Co., population 1,000; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire depart-

ment—12 chemical extinguishers, 2 hose carriages, all kinds; hose, cotton good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,000; total membership volunteers; bell alarm; 1 street box. Chief engineer, Geo. E. Daines.

WATER SUPPLY—Source, flowing wells; system, pumping direct; reservoir cap 1,000 bbls; pumping engines, dy cap 1,500,000 gals; 42 hydrants; pipe 4 miles, 10 to 4 in dia; pressure, domestic 55, fire 90 pounds; works owned by village; cost to construct \$20,000; to date \$35,000; ann expenses \$1,300. Supt, Geo. E. Daines.

Blissfield, Lenawee Co., population 2,150; fire area 400 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 5 chemical extinguishers, 1 hose carriage; hose, rubber good 1,500 ft, inferior 200 ft, cotton 200 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total ann expenses of department \$225; total membership 23; bell alarm. Chief engineer, M. B. Daron.

WATER SUPPLY—Source, river, basin, 5 cisterns, dy cap of cisterns 125,000 gals; 1 hydrant.

Brighton, Livingston Co., population 1,676; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 900 ft; value of fire department equipment \$2,700; part of building occupied; total ann expenses of department \$30; total membership 27, volunteers; bell alarm. Chief engineer, John Becker.

WATER SUPPLY—Source, mill pond, creek; system, pumping to 14 cisterns, owned by village. Supt, J. Becker; town clerk, Chas. Bryant.

Buchanan, Berrien Co., population about 3,000; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 2,500 ft; value of fire department equipment \$5,000; total ann expenses of department \$500; total membership 45, paid full time; bell and whistle alarm. Chief engineer, Frank P. Barnes.

WATER SUPPLY—Source, 1 well 18 ft across 6-8 in driven wells; system, pumping direct into mains; pumping engines, dy cap 300,000 gals; 40 hydrants; pipe 5 miles, 10 to 4 in dia; 8 valves; 20 taps; pressure, domestic 60, fire 100 pounds; waterworks owned by city; cost to construct \$30,000; ann expenses \$1,080. Supt and water commissioner, J. L. Richards.

Cadillac, Wexford Co., population 5,500; fire area 3 3/4 miles square; buildings, brick and wood, 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,800 ft; value of department \$2,500; value of buildings occupied \$1,500; total ann expenses \$1,200; total membership 60, volunteers; Chas electric alarm; 9 street boxes, 2 hose companies, 1 hook and ladder company. Chief engineer, Henry W. Still.

WATER SUPPLY—Source, Clam lake; system, direct pumping; pumping engines, standpipe cap 190,000 gals; dy cap 3,000,000 gals; 59 hydrants; pipe 8 miles, 4 to 12 in dia; 50 valves; pressure, domestic 60, fire 100 to 150 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$3,000. Supt, H. W. Green.

Calumet, Houghton Co., population 1,159; fire area 2,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—3 steam fire engines, 30 chemical extinguishers, 1 hook and ladder truck, 8 hose carriages, all kinds; hose, cotton good 4,000 ft, rubber good 3,000 ft; value of fire department equipment \$65,000; whistle alarm. Chief engineer, John Duncan.

WATER SUPPLY—Source, river; system, pump to standpipe and direct; pumping engines, dy cap 2,000,000 gals; 30 hydrants; pipe 3 1/2 miles, 4 to 12 in dia; 2 meters; pressure 45 to 100 pounds; works owned by company. Supt, J. N. Wright.

Caro, Foscila Co., population 2,000; buildings, brick, 2 and 3 stories; wooden roofs not permitted,

Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 1,000 ft, inferior 500 ft; value of fire department equipment \$2,500; value of buildings \$6,000; total ann expenses of department \$300; total membership 21, volunteers, paid part time; electric and bell alarm. Chief engineer, P. D. Eiddle.

WATER SUPPLY—Source, springs; system, pump to standpipe, cap 300,000 gals; cap of reservoir 225,000 gals; pumping engines, dy cap 1,000,000 gals; 30 hydrants; pipe 6 miles; 11 valves; pressure, domestic 60, fire 80 pounds; waterworks owned by company; cost to construct \$42,000; int on bonds 6 per cent. Supt and secy, C. O. Thomas.

Carrollton, Saginaw Co., population 1,000; fire area 1 sq mile; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, good 1,500 ft; value of fire department equipment \$5,000; value of buildings \$1,500; total ann expenses \$200; total membership 40, bell alarm. Chief engineer, Archibald H. Bierd.

WATER SUPPLY—Source, river, tanks.

Carson City, Montcalm Co., population 1,500; fire area 700 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; 1,500 ft cotton hose; value of equipment \$1,500; value of buildings occupied \$900; ann expenses \$600; total membership 25; bell alarm. Chief, B. C. Fasbender.

WATER SUPPLY—Source, Fish creek; system, pumping direct; reservoir cap 1,600 bbls; pumping engines, dy cap 192,000 gals; hydrants 12; pipe 1/2 mile; 3 valves; 20 taps; pressure, domestic 40; fire 100 pounds; waterworks owned by city; cost to construct \$11,000. Supt, F. H. Seymour.

Cassopolis, Cass Co., population 1,369; mercantile buildings, brick, 2 stories; private, wood and brick, 2 and 2 1/2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 800 ft; value of fire department equipment \$850; value of buildings occupied \$400; total membership 38, volunteer members 36; electric fire alarm; 6 street boxes. Chief engineer, Frank Feathers.

WATER SUPPLY—Source, lake; system, pumping direct; pumping engines, dy cap 750,000 gals; 37 hydrants; pipe 8 1/2 miles, 8, 6, 4 in dia; 15 valves; taps 92; galv iron and lead pipe; pressure, domestic 40, fire 80 pounds; waterworks owned by city; original cost to construct \$12,000; ann expenses \$1,500. Pres of com, James Patterson.

Cedar Springs, Kent Co., population 1,186; fire area 80 acres; buildings, wood and brick, 1 1/2 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 hose carriages; hose, linen fair 500 ft, 800 ft cotton good; value of buildings occupied \$1,800; total expenses last year \$1,160; membership 24, volunteer; whistle alarm. Chief engineer, E. A. Remer.

WATER SUPPLY—Source, creeks and wells; 5 reservoirs; 12 hydrants; 400 taps; pressure 40 pounds; works owned by city, cost \$7,000. Supt, H. B. Wager.

Central Mine, Keweenaw Co., population 1,000; buildings, wood, 1 1/2 and 2 stories; wooden roofs permitted. No fire department; hose 500 ft; total membership 40, volunteers; whistle alarm.

WATER SUPPLY—Source, creek; system, pumping to reservoir; pumping engines; 3 hydrants; pipe 800 ft; pressure 150 pounds; waterworks owned by company; cost to construct \$2,500. Mayor, Thos. Green.

Centreville, St Joseph Co., population 1,075; mercantile buildings, brick, 2 stories; dwellings, brick and wood, 2 stories. Fire department—1 chemical engine, 4 chemical extinguishers, 1 hook and ladder truck; hose, cotton good 100 ft; value of equipment \$1,500; value of buildings \$300; membership 30, volunteers; bell fire alarm. Chief engineer, Chas. Clowes.

WATER SUPPLY—Source, wells.

Charlevoix, Charlevoix Co., population 2,200; buildings, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; rubber hose 800 ft, cotton hose 1,200 ft; value of fire department equipment \$4,000; total ann expenses of depart-

ment \$400; total membership 30, paid 1; telephone alarm. Chief engineer, L. E. Smith.

WATER SUPPLY—Source, lake and wells; system, pumping direct; pumping engines, dy cap 750,000 gals; 83 hydrants; pipe 6 miles, 4 to 8 in dia; 25 valves; 150 taps; pressure 40 to 120 pounds; works owned by city; cost to construct \$30,000; ann expenses \$1,500. Supt, E. M. Guard.

Charlotte, Eaton Co., population 4,500; mercantile buildings, brick and galvanized iron, 2 stories; private, wood and brick, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 5 hose wagons; hose, cotton good 2,300 ft, inferior 200 ft; value of fire department equipment \$8,000; value of buildings occupied \$2,000; total ann expenses of department \$600; total membership 30, paid full time; bell and telephone alarm. Chief engineer, D. J. Donovan.*

WATER SUPPLY—Source, wells and cisterns; system, direct pumping; pumping engines, dy cap 3,000,000 gals; 75 hydrants; pipe 11 miles, 4 to 12 in dia; 125 valves; 500 taps; pressure, domestic 40, fire 80 pounds; waterworks owned by town; cost to construct \$45,000; ann expenses \$4,000. Pres of com, D. S. Tremaine; 1st engineer, W. W. Richardson.

Chase, Lake Co., population 388; buildings, wood, 1 and 2 stories; wooden roofs permitted. No organized fire department.*

WATER SUPPLY—Source, Pere Marquette river; system, pumping direct; Holly pumping engines; pipe 1 mile; 4 hydrants; pressure 40 to 80 pounds; cost to construct \$10,000. Pres, J. H. Kneville.

Cheboygan, Cheboygan Co., population 8,000; fire area 2,870 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden buildings not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, cotton good 2,800 ft, inferior 500 ft, rubber good 50 ft, linen good 1,200 ft; value of fire department equipment \$5,300; value of buildings occupied \$40,700; total ann expenses of department \$1,200; total membership 140, paid part time; whistle and bell alarm. Chief engineer, F. R. Ming.

WATER SUPPLY—Source, artesian wells; system, pumping direct; reservoirs, cap 75,000 gals; pumping engines, dy cap 2,000,000 gals; 44 hydrants; pipe 7 1-3 miles, 12 to 4 in dia; 300 taps; pressure, domestic 40, fire 90 pounds; works owned by city; cost to construct \$40,000, to date \$58,500; ann expenses \$3,000. Supt, Chas. Adams.

Chelsea, Washtenaw Co., population 1,600; mercantile buildings, brick, 2 stories; private, wood, 1-2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 1 hook and ladder truck; hose, rubber good 300 ft; value of apparatus \$3,000; value of buildings \$500; ann expenses \$200; membership 27, volunteers. Chief engineer, J. H. Palmer.

WATER SUPPLY—Source, springs and wells.

Chessaning, Saginaw Co., population 1,500; fire area 6 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire not investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; bell alarm.*

WATER SUPPLY—Source, not reported.

Clare, Clare Co., population 1,800; fire area 200 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages, all kinds; hose, rubber good 800 ft, inferior 200 ft, cotton good 1,200 ft; value of fire department equipment \$1,200; value of buildings occupied \$200; total ann expenses of department \$80; 22 volunteer members; whistle alarm. Chief engineer, C. H. Clark. (Hook and ladder truck proposed.)

WATER SUPPLY—Source, well and river; system, pumping direct; pumping engines, cap 4,000 gals per min; hydrants 20; pipe 4 miles, 4, 6 and 8 in; works owned by town; cost to construct \$10,000. Secy Water Board, A. J. Doherty.

Clinton, Lenawee Co., population 1,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, other apparatus, 75 buckets. Chief engineer, L. K. Davis.

WATER SUPPLY—Source, cisterns and force pumps.*

Coldwater, Branch Co., population 6,000; fire area 40 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 2,000 ft, inferior 200 ft; 2 horses, value \$600; value of fire department equipment \$7,500; value of buildings occupied \$8,000; total membership 13, paid full time 2, not included in membership, paid part time 13; bell and whistle alarm. Chief engineer, William Portner.

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 103 hydrants; pipe 14 miles, 16 to 4 in dia; 110 valves; 510 taps; pressure, domestic 60, fire 80 to 100 pounds; works owned by city; cost to construct \$70,000; cost to date \$75,000. Supt, L. A. Dillingham.

Constantine, St. Joseph Co., population 1,346; fire area 100 acres; mercantile buildings brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—9 chemical extinguishers, 2 hose carriages; hose, cotton good 600 ft, inferior 200 ft, rubber good 400 ft, inferior 400 ft; total value of equipment \$1,000; ann expenses of department \$300; total membership 20, volunteers; bell alarm; 1 hose company. Chief engineer, J. H. Barry.

WATER SUPPLY—Source, Fawn river; system, direct pumping; 47 hydrants; pipe 5½ miles, 4 to 10 in dia; 11 valves; 213 taps; pressure, domestic 25 to 30, fire 100 to 180 pounds; waterworks owned by city; cost to construct \$22,500; ann expenses \$200. Pres, John B. George; supt, E. G. Cutter.

Corunna, Shiawassee Co., population 1,382; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 8 hand engines, 8 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; 2 horses, value \$500; value of fire department equipment \$6,000; value of buildings occupied \$5,000; total ann expenses of department \$600; total membership 75, all volunteers. Chief, John F. McCurdy.

WATER SUPPLY—Source, river, wells and reservoirs. Mayor, J. B. F. Curtis.

Croswell, Sanilac Co., population 800; fire area 20 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose cart, hand grenades in most business places; hose, rubber good 500 ft; value of fire department equipment \$1,700; value of buildings occupied \$1,000; membership 35. Chief, C. H. Niggeman.

WATER SUPPLY—Source, Black river; system, pump to reservoir, cap 3,500 barrels; works owned by F. & P. M. R. Co. Supt, C. Goodwin.

Crystal Falls, Iron Co., population 3,000; fire area 1 mile; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carts; hose, rubber good 1,500 ft, cotton good 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,500; total membership 21, volunteers; electric alarm; 1 hook and ladder company, 3 hose companies. Chief engineer, J. E. Bower.

WATER SUPPLY—Source, collecting reservoirs and stream; reservoir cap 1,000,000 gals; steam pumping engines, dy cap 875,000 gals; pipe 2 miles, 8, 6, 4 in dia; 20 hydrants; valves 6; pressure 100 to 120 pounds; cost to construct \$18,000; ann expenses \$2,500. Supt, J. E. Jackson.*

Decatur, Van Buren Co., population 1,500; fire area 10 acres; buildings, brick and stone; wooden roofs not permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; total ann expenses of department \$10; 750 ft cotton hose; value of appa-

ratus \$2,000; value of buildings \$2,500; total membership 50, volunteers. Chief engineer, A. L. Maulton.

WATER SUPPLY—Source, 4 cisterns and elevated tank; system, pumping to tank, cap of tanks 800 bbls each; cap of tank 525 bbls; 1 hydrant; works owned by village; cost to construct \$2,000; ann expenses \$50.

Detroit, Wayne Co., population 250,000; fire area 19,000 acres; mercantile buildings, brick, 2 to 10 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—21 steam fire engines, 7 chemical engines on wheels, 62 chemical extinguishers, 12 hook and ladder trucks, 7 aerial trucks, 11 hose carriages, all kinds, 10 hose wagons, fire boat and water tower, 5 supply wagons; hose, cotton good 55,000 ft; 157 horses, value \$31,400; value of fire department equipment and buildings \$1,247,224; total ann expenses of department \$485,498; total membership 338, paid full time; Gamewell alarm; 337 street boxes. Chief engineer, James Battle.

WATER SUPPLY—Source, Detroit river; system, pumping direct; 8 pumping engines, dy cap 102,000,000 gals; hydrants 2,294; pipe 432 miles, 3 to 42 in dia; 4,374 valves; tape 48,657; pressure, domestic 13 to 80 pounds, fire same; waterworks owned by city; expenses of construction to date \$5,569,632; ann expenses \$97,247. Gen'l supt, L. N. Case.

Dowagiac, Cass Co., population 3,500; fire area 1½ miles sq; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 5 hose carriages, all kinds, 1 hose wagon; hose, rubber good 3,500 ft, inferior 400 ft, cotton good 3,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$5,500; total ann expenses of department \$1,500; total membership 80, paid full time 3, paid part time 57; Bigelow and Jewell electric alarm; 12 street boxes. Chief engineer, E. Barlow Jewell.

WATER SUPPLY—Source, artesian wells; system, direct to mains; reservoir cap 85,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 74; pipe 10½ miles, 12 to 3 in dia; 112 valves; 442 taps; pressure, domestic 40 lbs, fire 90 lbs; waterworks owned by city; original cost to construct \$41,000; cost to date \$48,500; ann expenses \$3,800. Supt, E. Barlow Jewell.

Dundee, Monroe Co., population 1,300; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 200 ft; 2 horses, value \$400; value of fire department equipment \$1,900; value of buildings occupied \$3,500; total membership 80, paid full time 2, volunteer members 28; bell fire alarm. Chief engineer, A. R. Wiggins.

WATER SUPPLY—Source, wells and hand pumps.

Eastlake, Manistee Co., population 2,000; fire area 40 acres; mercantile buildings, wood, 1½ stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—hand grenades, 1 hose carriage, 1 hose wagon; hose, cotton good 3,000 ft, inferior 500 ft, rubber good 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$700; total membership 24; whistle and bell alarm. Chief engineer, R. F. Tuxworth.

WATER SUPPLY (Source not reported.)

East Saginaw (see Saginaw).

Eaton Rapids, Eaton Co., population 2,300; mercantile buildings, brick, 2 to 4 stories; private, wood and brick, 2 stories; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 chemical extinguishers, 2 hose carts; hose, cotton good 1,700 ft; value of fire department equipment \$8,000; value of buildings occupied \$3,000; total membership 40, paid part time, engineer paid full time; bell alarm. Chief engineer, W. F. Stirling.

WATER SUPPLY—Source, river, mill race; system, pumping to 2 cisterns; pumping engines, dy cap 60,000 gals. Town clerk, L. W. Toles.

Edmore, Montcalm Co., population 1,000; buildings, brick and wood, 2 stories; shingle roofs used; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$1,000; total membership 12, volunteers; watchman; bell alarm. Marshal, J. J. Eitelbus.

WATER SUPPLY—Source, drive wells; system, pump to reservoir and direct, cap 80,000 bbls; pumping engines, dy cap 500,000 gals; 9 hydrants; pipe ½ mile, 3 and 4 in dia; 4 valves; quality of water good; pressure, domestic 10, fire 140 pounds; waterworks owned by village; cost to construct \$9,000; ann expenses \$800. Supt, H. J. Aldrich.

Elk Rapids, Antrim Co., population 1,600; fire area 80 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages; hose, cotton good 1,300 ft, inferior 750 ft; value of fire department equipment \$1,500; value of buildings occupied \$400; 50 volunteer members; whistle alarm. Chief engineer, William B. Chandler.

WATER SUPPLY—Source, Elk lake; system, pumping direct; pumping engines, dy cap 1,500,000 gals; hydrants 44; pipe 4½ miles, 8, 6, 4 in dia; 42 valves; tape 98; pressure, domestic 45, fire 90 to 120 pounds; waterworks owned by company; original cost to construct \$15,000; ann expenses \$900. Supt, C. E. Wheeler.

Escanaba, Delta Co., population 8,000; fire area 3 sq. miles; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical engines (hand), 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, 1 supply wagon; hose, cotton good 2,000 ft, poor 500 ft, rubber good 1,000 ft, inferior 2,000 ft; 12 horses; value \$550; value of equipment \$15,000; value of buildings occupied \$8,000; total membership 16, paid full time 6, paid part 10; Gamewell alarm; 12 street boxes, 2 private. Chief engineer, James C. Tolan. R.R. Co. have 40 members in 2 companies and fire tug when needed. (Contemplated: hook and ladder truck.)

WATER SUPPLY—Source, Green Bay; system, direct pumping; pumping engines, dy cap 2,300,000 gals; 95 hydrants; pipe 10½ miles, 14 to 4 in dia; 868 taps; pressure, domestic 40, fire 150 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct \$125,000; cost to date \$200,000; ann expenses \$7,000. Supt, C. W. McGowan.

Essexville, Bay Co., population 2,200; fire area 1,000 acres; mercantile buildings, brick and wood, 1½ and 2 stories; private, wood, 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 40 ft, cotton good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$600; total ann expenses of department \$50; total membership 20, paid full time 1, paid part time 19, volunteer members 4; bell alarm. Chief engineer, F. Cattle.

WATER SUPPLY—Source, river; pipe 600 ft, 2 in dia.*

Evart, Osceola Co., population 1,600; buildings, wood, 2 stories. Fire department—1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 2,500 ft, inferior 800 ft; value of fire department equipment \$3,000; total ann expenses of department \$1,650; total membership 24, volunteers; electric alarm; 24 street boxes. Chief engineer, A. Smith.

WATER SUPPLY—Source, wells; system, direct pumping; pumping engines, dy cap 1,500,000 gals; 22 hydrants; pipe 1-2 miles; 15 gates; pressure, domestic 20, fire 80 to 100 pounds; waterworks owned by village; cost to construct \$12,500, to date \$25,000; ann expenses \$1,800. Supt, Ed. Beath.

Fenton, Genesee Co., population 3,687; mercantile buildings, brick, 2 and 3 stories; private, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,250 ft, rubber good 1,000 ft; 4 horses; value of fire department equip-

ment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 15, paid full time 8; telephone and bell alarm. Chief engineer, A. Frank Plumb.

WATER SUPPLY—Source, artesian wells and reservoir; system, direct; reservoir cap 100,000 gals; pumping engines, dy cap 1,500,000 gals; 52 hydrants; pipe 8 miles, 2, 4, 6 and 8 in dia; 70 valves; pressure, domestic 60, fire 110 pounds; waterworks owned by city; cost to construct \$28,000; to date \$28,000; ann expenses \$1,800. Pres of com, J. Buckbee.

Flint, Genesee Co., population 11,000; fire area 90 acres; mercantile buildings, brick, 2, 3 and 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage (reserve), 2 hose wagons; hose, cotton good 4,500 ft; 5 horses, value \$1,000; value of fire department equipment \$18,500; value of buildings occupied \$10,000; total ann expenses of department \$3,000; total membership 12, paid full time 5, paid part time 7; Gaynor alarm; 26 street boxes. Chief engineer, James A. Williams.

WATER SUPPLY—Source, Flint river; system, pumping direct; pumping engines, dy cap 7,000,000 gals; 118 hydrants; pipe 15 miles, 4 to 16 in dia; 53 valves; 15 meters; pressure, domestic 45, fire 100 to 130 pounds; 700 taps; works owned by company; cost to construct to date \$175,370.44; ann expenses \$11,000. Supt, Wm. L. Fisher.*

Fort Gratiot, St. Clair Co., annexed to Port Huron

Fowlerville, Livingston Co., population, including Hanley township 2,103; fire area 1.4 mile sq; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$500; value of buildings occupied \$200; total ann expenses of department \$30; total membership 30, all volunteers; bell alarm. Chief engineer, C. Y. Peck.

WATER SUPPLY—Source, wells.*

Frankfort, Benzie Co., population 1,500; fire area 160 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, supply of hooks and ladders; hose, cotton good 1,500 ft; value of department apparatus \$2,000; value of buildings occupied \$1,000; expenses last year \$1,900; 25 volunteer members; whistle alarm. Chief, R. Evans.

WATER SUPPLY—Source, wells; system, pumping to tank, cap 97,000 gals; pumping engines, dy cap 64,000 gals; 34 hydrants; pipe 31.8 miles; pressure, domestic 60, fire 100 pounds; works owned by company; cost to construct \$25,000. Supt, D. E. McIntyre.

Fremont, Newaygo Co., population 1,500; fire area 1 mile; buildings, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 4 hose carriages; hose, cotton good 1,800 ft; value of department apparatus \$2,000; value of buildings occupied \$1,000; expenses for past year \$300; total membership 50, volunteers; electric alarm; 7 street boxes. Chief engineer, J. Gerber.

WATER SUPPLY—Source, springs and 6 flowing wells; system, direct pumping; pumping engines; 15 hydrants; pipe 1 3/4 miles, 1 to 6 in dia; 10 valves; pressure, domestic 40, fire 120 pounds; waterworks owned by city; cost to construct \$8,000, to date \$10,000; ann expenses \$450. Supt, Andrew Gerber.

Gaylord, Otsego Co., population 750; mercantile buildings, wood, 2 stories; private, wood, 1 and 1 1/2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 450 ft, inferior 50 ft; value of fire department equipment \$900; value of buildings occupied \$800; total membership 36, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, Houben Caister.

WATER SUPPLY—Source, wells; system, pumping to tank; tank cap 1,800 bbls; deep well, dy cap 100,000 gals; 22 hydrants; pipe 2 miles, 4 and 6 in dia; 5 valves; 200 taps; pressure 30 pounds; waterworks

owned by village; cost to construct \$7,500, to date \$9,500; ann expenses \$600. Pres, D. P. Stoffer.

Gladstone, Delta Co., population 2,500; fire area 1,200 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,550 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses of department \$500; membership 30, paid full time 4, volunteers; electric alarm. Chief engineer, Tom Dolan.

WATER SUPPLY—Source, Little Bay de Noc; system, pumping direct; pumping engines, dy cap 2,500,000 gals; 32 hydrants; pipe 6 miles, 4 to 12 in dia; 25 valves; 200 taps; pressure, domestic 40, fire 100 pounds; works owned by city; cost to construct \$33,000; to date \$37,000; ann expenses \$2,600. Supt, James McWilliams.

Gladwin, Gladwin Co.

WATER SUPPLY—Source, artesian well; system, pumping direct; pumping engines, dy cap 200,000 gals; 15 hydrants; pipe 2 1/2 miles, 8 in dia; quality of water good; pressure, domestic 40, fire 80 pounds; waterworks owned by village; original cost to construct \$8,000; ann expenses \$900; int on bonds 5 per cent. Supt, M. T. Pike.*

Grand Haven, Ottawa Co., population 6,000; fire area 100 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 3,300 ft, inferior 700 ft; rubber good 500 ft; 2 horses, value \$500; value of fire department equipment \$15,000; value of buildings occupied \$8,000; total ann expenses of department \$4,000; total membership 15, volunteers; telephone alarm. Chief engineer, Joseph Palmer.

WATER SUPPLY—Source, drive wells and open wells; system, direct to mains; storage basin cap 600,000 gals; pumping engines, dy cap 1,500,000 gals; 60 hydrants; pipe 7 1/4 miles, 4, 6, 8, 10 and 12 in dia; 48 valves; 550 taps; pressure, domestic 35, fire 90 pounds; waterworks owned by company; original cost to construct \$70,000; ann expenses \$3,350. Supt, A. M. Cosgrove.

Grand Ledge, Eaton Co., population 1,800; buildings, brick and wood, 2 stories. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 600 ft; value of fire department equipment \$2,000; total ann expenses of department \$500; total membership 40, volunteers; bell alarm. Chief engineer, Wm. Taylor.*

WATER SUPPLY—Source, river and cisterns; 2 reservoirs. Village clerk, G. B. Pratt.*

Grand Rapids, Kent Co., population 90,000; fire area 100 acres; mercantile buildings, brick and stone, 5 stories; private, wood, 2 1/2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—5 steam fire engines, 2 chemical engines on wheels, 10 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 3 hose carriages, 6 hose wagons; hose, cotton good 18,000 ft, 3,000 ft medium, rubber good 500 ft; 47 horses, value \$11,750; value of fire department equipment \$48,000; value of buildings occupied \$75,000; total ann expenses of department \$100,000; total membership 108, paid full time 82, paid part time 24; Gamewell alarm; 108 street boxes. Chief engineer, Henry Lemoin.

WATER SUPPLY—Source, Grand river; system, pumping to reservoir and standpipe; reservoir cap 6,000,000 gals; standpipe cap 366,000 gals; pumping engines, dy cap 23,000,000 gals; 1,050 hydrants; pipe 11 1/4 miles, 4 to 24 in dia; 800 valves; 6,280 taps; quality of water good; pressure 40 to 70 pounds; works owned by city; cost to construct to date \$1,180,000; ann expenses \$35,250. Secy, Fred A. Twamley.

Grayling, Crawford Co., population 1,558; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department not reported.*

WATER SUPPLY—Source, Ausable river; system, gravity; 12 hydrants; pipe 3 1/3 miles; quality of water good, filtration; works owned by company; cost to construct \$3,000; owners, Grayling & Hanson.*

Greenville, Montcalm Co., population 3,500; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 1 and 2 stories. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,750 ft; 2 horses; value of buildings occupied \$2,000; total membership 11, paid full time 1, part time 10; bell and whistle alarm. Chief engineer, R. Russell.

WATER SUPPLY—Source, wells; system, direct, cap of reservoir 68,000 gals; pumping engines, dy cap 2,000,000 gals; 52 hydrants; pipe 7½ miles, 6 to 18 in dia; pressure, domestic 80, fire 130 pounds; waterworks owned by city; cost to construct \$65,000; ann expenses \$2,500; Supt, James Gracey.

Grosse Point, Wayne Co., population 298; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department not reported.*

WATER SUPPLY—Source, Lake St. Clair; system, pumping direct from settling basin; pumping engines, dy cap 3,500,000 gals; 40 hydrants; pipe 4 miles, 8 in dia; quality of water good; 35 taps; pressure, domestic 45, fire 80 pounds; works owned by Newbury & McMillen; cost to construct \$35,000. Pres, H. McMillen; supt, A. E. O'Hara.

Hancock, Houghton Co., population 2,000; fire area 100 acres; buildings, wood, stone and brick, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 2,000 ft, cotton good 500 ft; value of equipment \$20,000; value of buildings occupied \$5,000; total ann expenses of department \$4,000; total membership 18, part paid; electric alarm. Chief engineer, A. J. Scott.

WATER SUPPLY—Source, lake and springs; system, direct pumping; reservoir cap 300,000 gals; pumping engines, dy cap 3,000,000 gals; 49 hydrants; pipe 4 1-4 miles, 4 to 10 in dia; 12 gates; pressure 100 pounds; waterworks owned by village; cost to construct \$20,000; expenditures during past year \$40,000. Mayor, Thos. Stewart; city clerk, M. Finn.

Harbor Springs, Emmet Co., population 1,600; fire area 400 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,300 ft; value of fire department equipment \$1,155; value of buildings occupied \$200; total ann expenses of department \$240; total membership 25 volunteers; electric alarm; 12 street boxes. Chief engineer, I. J. Bennett.

WATER SUPPLY—Source, artesian wells and Lake Michigan; system, pump direct; pumping engines, dy cap 250,000 gals; 20 hydrants; pipe 7 miles, 6, 4 and 2 in dia; 10 valves; 220 taps; pressure 100 to 40, fire 200 pounds; waterworks owned by E. Shay & Son; ann expenses \$1,800. Supt, L. Shay.

Harrison, Clare Co., population 752; fire area 1,000 acres; buildings, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—extension ladders, 2 hose carriages; hose, cotton 1,500 ft; value of equipment \$1,500; value of buildings occupied \$500; total membership 20, volunteers; telegraph alarm. Chief engineer, A. R. Canfield.

WATER SUPPLY—Source, Budd lake; system, direct; pumping engines, dy cap 1,600,000 gals; 16 hydrants; pipe 1 3-4 miles; 8 valves; pressure, domestic 80, fire 100 pounds; waterworks owned by village; cost to construct \$9,000; ann expenses \$1,100. Supt and secy, G. F. Drake.

Hart, Oceana Co., population 1,200; fire area 50 acres; mercantile buildings, brick and wood, 1 and 2½ stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hose carriage; hose, cotton good 900 ft, inferior 100 ft; value of fire department equipment \$1,600; value of buildings occupied \$1,000; total membership 21, volunteers; bell alarm. Chief engineer, B. S. Reed.

WATER SUPPLY—Source, river; system, pumping direct; dy cap 600 gals per minute; 11 hydrants; pipe 3-4 mile, 6 and 4 in dia; 4 valves; 100 taps; pressure, domestic 40, fire 140 pounds; waterworks owned by city; original cost to con-

struct \$4,500; expenses of construction to date \$5,600; ann expenses \$100. Supt, T. H. Edwards.*

Hartford, Van Buren Co., population 1,200; fire area 160; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, inferior 500 ft, cotton good 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership volunteers; bell alarm. Chief engineer, S. Van Ostrand.

WATER SUPPLY—Source, wells; system, pumping to tanks.

Hastings, Barry Co., population 3,500; fire area 1 sq mile; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 chemical engine on wheels (not used), 2 chemical extinguishers, 1 hook and ladder truck, 3 hand carts; hose, cotton good 2,500 ft; value of fire department equipment \$3,800; total ann expenses of department \$650; total membership 50, paid part time; bell and whistle alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, W. A. Scidmore.

WATER SUPPLY—Source, well; system, direct; pumping engines, dy cap 1,000,000 gals; 47 hydrants; pipe 7 miles, 4 to 8 in dia; 27 gates; 420 taps; pressure, domestic 60, fire 80 to 100 pounds; waterworks owned by village; cost to construct \$20,000; to date \$40,000; ann expenses \$3,200. Pres, C. Weismert.

Hillsdale, Hillsdale Co., population 4,000; fire area 80 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 chemical engine on wheels, 1 hose carriage, 1 hose wagon; hose, cotton good 1,500 ft, rubber poor 400 ft, linen good 500 ft; 2 horses, value \$400; value of fire department equipment \$8,000; value of buildings occupied \$2,000; total ann expenses of department \$955; total membership 17, paid full time 2, part time 15; telephone alarm. Chief engineer, William P. Ferry.

WATER SUPPLY—Source, Bawbecs lake; system, direct pumping; pumping engines, dy cap 2,500,000 gals; 75 hydrants; pipe 8 miles, 4 to 12 in dia; 2 meters; pressure, domestic 40, fire 80 to 120 pounds; cost to construct \$65,000; ann expenses \$2,800. Pres of com, C. F. Cook.*

Holland, Ottawa Co., population 5,000; fire area 1½ sq miles; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 4,000 ft, inferior 600 ft, rubber inferior 100 ft; value of fire department equipment \$4,500; value of buildings occupied \$1,700; total ann expenses of department \$1,000; total membership 23, all volunteers; electric alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, J. Dinkeloo.*

WATER SUPPLY—Source, 3 wells connected with river; system, gravity and direct pumping; pumping engines, dy cap 1,500,000 gals; 84 hydrants; pipe 10½ miles, 4 to 8 in dia; 98 valves; 302 taps; pressure, domestic 40, fire 100 pounds; waterworks owned by city; cost to construct to date \$48,000; ann expenses \$2,500. Chairman and supt, John Kramer.

Holly, Oakland Co., population 1,300; fire area 300 acres; buildings, brick and frame, 2 stories; shingle roofs; fireworks ordinance. Fire department—12 chemical extinguishers, 2 hose carriages; hose, rubber good 1,000 ft, cotton new 750 ft, cotton good 250 ft; total membership 15, paid. Chief engineer, W. H. Smith.

WATER SUPPLY—Source, driven wells and pond; system, direct; pumping engines, dy cap 1,500,000 gals; 25 hydrants; pipe 4 miles, 4 to 12 in dia; 20 valves; 200 taps; pressure, domestic 35, fire 60 to 130 pounds; waterworks owned by city; cost to construct \$13,000; ann expenses \$1,600. Supt, E. Joslin.

Homers, Calhoun Co., population 1,200; fire area 8 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance.

Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$2,500; total ann expenses of department \$200; total membership 60, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, G. F. S. Ito.

WATER SUPPLY—Source, artesian well and 2 force pumps; 9 cisterns. Clerk, C. D. Burt.

Houghton, Houghton Co., population 4,000; fire area 1 sq mile; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, rubber good 3,000 ft, inferior 500 ft; value of fire department equipment \$12,500; value of buildings occupied \$28,000; total ann expenses of department \$150; total membership 45, volunteers; bell alarm. Chief engineer, R. McDonald.

WATER SUPPLY—Source, living spring; system, gravity; reservoir cap 468,750 gals; 40 hydrants; pipe, 3 1/4 miles, 10 to 4 in; 24 valves; 5 meters; pressure 70 to 84 pounds; waterworks owned by city; cost to construct \$80,000; ann expenses \$1,000. Supt, R. McDonald.

Howard City, Montcalm Co., population 1,800; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; fire proof roofs used; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 1,000 ft; value of fire department equipment \$1,200; total membership 20, volunteers; bell alarm; 7 magnetic bells. Chief engineer, John F. Van Durburgh.

WATER SUPPLY—Source, river; system, pumping direct; pumping engines, dy cap 1,500,000 gals; 23 hydrants; pipe 3 miles, 8 to 4 in; 13 valves; 100 taps, galv iron pipe used; pressure, domestic 40, fire 60 to 130 pounds; waterworks owned by city; original cost to construct \$10,000; to date \$14,000; ann expenses \$1,300. Supt, C. C. Messenger.

Hewell, Livingston Co., population 3,000; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 2 chemical extinguishers; hose, rubber good 300 ft; cotton good 100 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; total ann expenses of department \$2,000; total membership 13, all volunteers; bell alarm. Foreman, Thomas B. Clark.

WATER SUPPLY—Source, driven wells. (Are building system of waterworks.)

Hudson, Lenawee Co., population 3,200; fire area 40 acres; buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 3 hose carriages; hose, cotton good 1,500 ft, poor 200 ft, rubber good 300 ft, inferior 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$300; total membership 25; electric bell alarm. Chief engineer, E. E. Pratt.

WATER SUPPLY—Source, wells; system, direct; pumping engines, dy cap 2,000,000 gals; 80 hydrants; pipe 5 1-10 miles, 4 to 12 in dia; 40 valves; 285 taps; pressure, domestic 40 to 45, fire 120 pounds; works owned by city; cost to construct, \$80,718; cost to date \$31,500; ann expenses \$2,200. Supt, A. P. Fellows.

Imlay City, Lapeer Co., population 1,340. Fire department—1 hand engine, 4 chemical extinguishers, 2 hose carriages, ladders; hose, 1,200 ft; total membership 22, volunteers. Chief engineer, Jas. J. Muir.

WATER SUPPLY—Source, 4 wells; system, pumping direct; reservoir cap 35,000 gals; standpipe 36,000 gals; pumping engines, cap 504,000 gals in 12 hours; 80 hydrants; pipe 3 miles 8, 6, 4 and 2 in dia; 8 valves; 81 taps; pressure 60 to 150 pounds; works owned by city; cost to construct \$18,240; to date \$20,000; ann expenses \$800. Pres, Lyman Carlrow; supt, Orson Filkins.

Ionia, Ionia Co., population 6,000; fire area 80 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks or-

dinance. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,650 ft, inferior 950 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$2,200; total membership 44, all volunteers; electric alarm; 32 street boxes; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, Chas. Girard.

WATER SUPPLY—Source, artesian wells and springs; system, pumping to reservoir and direct; reservoir cap 50,000 gals; pumping engines, dy cap 3,000,000 gals each; 111 hydrants; pipe 16 miles, 4 to 12 in dia; 77 valves; 736 taps; pressure, domestic 50 to 100 pounds; fire same; works owned by city; cost to construct to date \$111,000; ann expenses \$5,000. Supt, Frank Sibley.

Iron Mountain, Dickinson Co., population 9,700; fire area 3,621 acres; mercantile buildings, brick and wood, 2 and 3 1-2 stories; private, brick and wood, 1, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages, 2 hose wagons; hose, cotton good 3,000 ft, rubber good 2,000 ft, inferior 500 ft; 5 horses, value \$1,115; value of fire department equipment \$16,000; value of buildings occupied \$3,000; total ann expenses of department \$15,000; total membership 12, paid full time; electric alarm; 31 street boxes. Chief engineer, Edward Harvey.

WATER SUPPLY—Source, springs; system, pumping to reservoir, cap 600,000 gals; pumping engines, dy cap 4,000,000 gals each; 173 hydrants; pipe 17 miles, 4 to 16 in dia; 173 valves; 450 taps; pressure, domestic 90, fire 80 pounds; works owned by company; cost to construct to date \$215,000; ann expenses \$8,000. Supt, Edward A. Croll.

Ironwood, Gogebic Co., population 12,000; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 9 hose carriages, all kinds, 2 supply wagons; hose, cotton good 6,000 ft, rubber good, inferior 1,000 ft; 5 horses, value \$1,250; value of fire department equipment \$15,000; value of buildings occupied \$25,000; total ann expenses of department \$7,865; total membership 23, paid full time 7, paid part time 16; Gamewell alarm; 17 street boxes; 3 hose companies. Chief engineer, J. W. Morrison.

WATER SUPPLY—Source, Montreal river; system, direct; standpipe cap 250,000 gals; pumping engines, dy cap 2,000,000 gals; 115 hydrants; pipe 13 miles, 4 to 12 in dia; 700 taps; pressure, domestic 70 to 95, fire 95 to 130 pounds; works owned by company. Supt, J. S. Kennedy.

Ishpeming, Marquette Co., population 13,000; fire area 5 miles; mercantile buildings, brick, stone and metal, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 4 hand hose carts, 1 supply wagon; hose, rubber good 4,800 ft; 4 horses, value \$1,000; value of fire department equipment \$24,000; value of buildings occupied \$18,000; total ann expenses of department \$6,875; total membership 103, 3 paid full time, all volunteers; Gamewell electric alarm; street boxes 25; 1 hook and ladder company, 4 hose companies. Chief engineer, H. Routhier; secy, F. Collins.

WATER SUPPLY—Source, Lake Sault; system, gravity and pumping direct; pumping engines, dy cap 5,000,000 gals; 120 hydrants; pipe 24 1-10 miles, 2 to 14 in dia; 94 valves; taps 1,300; pressure, domestic 50, fire 100 pounds; works owned by city; cost to construct \$130,000; ann expenses \$2,500. Supt, A. W. Gibbs.

Ithaca, Gratiot Co., population 1,900; fire area 1 mile square; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted except on Main st.; fireworks ordinance. Fire department—1 horse-power engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$5,000; value of department buildings \$1,200; ann expenses \$100; total membership 35, volunteers; bell alarm. Chief engineer, A. P. Lane.

WATER SUPPLY—Source, well; system, pumping to tank; cap of tanks 1,000 to 1,500 barrels

each; supplied to a few factories and for fire protection; pipe 1 mile; cost to construct \$1,000. City clerk, A. P. Lane.*

Jackson, Jackson Co., population est 24,000; fire area 3 miles sq; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 supply wagons; hose, cotton good 6,650 ft, inferior 200; 13 horses, value \$3,000; value of fire department equipment \$17,000; value of buildings occupied \$18,000; total ann expenses of department \$17,674; total membership 23, paid full time 21, paid part time 2; Gamewell electric alarm; street boxes 30. Chief engineer, Edwin L. Helmer.

Water Supply—Source, artesian wells; system, direct pumping; pumping engines, dy cap 6,000,000 gals; 237 hydrants; pipe 21 miles, 4 to 18 in dia; 30 meters; pressure 40 to 100 pounds; waterworks owned by city; cost to construct \$250,000; ann expenses \$12,000. Supt, Benj. Porter.*

Jonesville, Hillsdale Co., population 1,288; fire area 1½ mile sq; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 1 hand engine, 1 ladder truck, 2 hose carriages, all kinds; hose, cotton good 900 ft, inferior 500 ft, rubber inferior 250 ft; value of fire department equipment \$5,000; value of buildings occupied \$4,500; total ann expenses of department \$334; total membership 36, all volunteers; bell alarm; engine companies 1, 2 hose companies. Chief engineer, Andrew Mack.

Water Supply—Source, mill race, river, wells. Village clerk, W. M. Wetmore.

Kalamazoo, Kalamazoo Co., population 17,853; fire area 4½ sq miles; mercantile buildings, brick, 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 6 chemical extinguishers, 2 hook and ladder trucks, 2 two-horse hose carriages, 1 one-horse hose carriage; hose, cotton good 5,500 ft, rubber 500 ft; 10 horses; value of fire department equipment \$10,500; 2 buildings occupied; total ann expenses of department \$14,000; total membership 34, paid full time 15, paid part time 20; telegraph alarm; 29 street boxes. Chief engineer, B. J. Healy.

Water Supply—Source, two large wells, 6 artesian wells; system, direct pumping; pumping engines, dy cap 8,000,000 gals; 331 hydrants; pipe 33 miles, 4 to 24 in dia; 365 valves; 100 meters; pressure 45 to 90 pounds; waterworks owned by city; cost to construct \$300,000; ann expenses \$10,000. Supt, Wilbur F. Reed.

Kalkaska, Kalkaska Co., population 2,000; fire area 30 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages; hose, rubber good 1,800 ft, inferior 300 ft; total ann expenses of department \$2,500; total membership 57, volunteer; bell alarm. Chief engineer, A. A. Blaszy.

Water Supply—Source, river; system, pumping direct; pumping engines, dy cap 1,500,000 gals; 36 hydrants; pipe 3 1-5 miles, 8 to 10 in dia; pressure, domestic 30, fire 90 pounds; works owned by village; cost to construct \$18,000. Supt, H. Helmer.*

Lake City, Missaukee Co., population 1,000; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 500 ft, cotton good 500 ft; value of buildings occupied \$100; total membership 20, volunteer members; whistle alarm. Captain, Geo. S. Stout. (H & L truck contemplated.)

Water Supply—Source, Muskrat lake; system, pumping direct; pumping engines, cap 15 gals per stroke; hydrants 10; pipe 1 1-4 miles, 6 in dia; 70 taps; quality of water good; pressure, domestic 40, fire 80 pounds; waterworks owned by private individual; original cost to construct \$5,700; expenses of construction to date \$10,027; ann expenses \$1,200. Pres, D. Reedes.

Lake Linden, Houghton Co., population

3,800; fire area 160 acres; buildings, brick, stone and wood, 2 to 6 stories; wooden roofs permitted outside fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft, inferior 200 ft; value of fire department equipment \$2,000; total ann expenses of department about \$500; total membership 12, volunteers; telegraph, steam whistle and bell alarm. Chief, W. Kline.

Water Supply—Source, artesian well and creek; system, gravity; reservoir 2,000,000 gals; pumping engines, dy cap 35,000 gals; 51 hydrants; pipe 5 miles, 4 to 12 in dia; 42 valves; pressure, domestic 50, fire 100 pounds; cost to construct \$45,000. Supt, F. O. Mayotte.*

L'Anse, Baraga Co., population 500; fire area 35 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages, other apparatus hooks and ladders; hose, rubber good 900 ft, inferior 200 ft, cotton good 550 ft, inferior 100 ft; total membership 20, volunteers; bell alarm. Chief engineer, A. Bowin.*

Water Supply—Source, spring creek; system, gravity; hydrants 23; pipe 13 miles, 4 to 10 in dia; 22 valves; 80 taps; pressure, domestic 100, fire 100 pounds; waterworks owned by city; original cost to construct \$14,000; expenses of construction to date \$15,000; ann expenses \$150. Pres of com, August Meuge.

Lansing, Ingham Co., population 15,200; fire area 400 acres; mercantile buildings, stone and brick, 2 and 3 stories; private, brick, stone and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 double chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 8 hose carts, all kinds, 1 hose wagon; hose, cotton good 3,300 ft, rubber good 550 ft; 6 horses, value \$1,000; value of fire department equipment \$9,245; value of buildings occupied \$8,000; total ann expenses of department \$18,000; total membership 21, paid full time 3, paid part time 18; Gamewell electric alarm; 34 street boxes; 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, E. H. Kneelsyn.

Water Supply—Source, wells; system, direct and pumping to standpipe; standpipe cap 200,000 gals; pumping engines, dy cap 3,000,000 gals; 346 hydrants; pipe 38½ miles, 6 to 16 in dia; 186 valves; taps 2210; pressure, domestic 60, fire 90 pounds; cost to construct \$100,000; cost to construct to date \$205,000; ann expenses \$15,300. Pres, I. Ingersoll; Daniel Barringer, secy of board. (A new Holly pump, dy cap 5,000,000 gals will be operated this year.)

Lapeer, Lapeer Co., population 2,753; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; steam couplings; hose, cotton good 1,200 ft, rubber good 300 ft, inferior 2,500 ft; value of fire department equipment \$7,000; value of 1 building owned \$6,000; total ann expenses of department \$1,500; total membership 45, volunteers; bell alarm.*

Water Supply—Source, artesian wells; system, direct; reservoir cap 30,000 gals; pumping engines, dy cap 1,500,000 gals; 74 hydrants; pipe 13 miles, 2 to 10 in dia; 349 taps; pressure, domestic 40, fire 80 pounds; cost to construct \$41,000; cost to date \$45,000; ann expenses \$2,000. Supt, S. D. Brown.

Leaside, Ingham Co., population 1,058; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 200 ft, inferior 300 ft, linen good 1,000 ft, inferior 600 ft; value of fire department equipment \$3,000; value of buildings occupied \$4,000; total ann expenses of department \$300; membership 40, volunteers; bell alarm. Chief engineer, E. E. Rogers.

Water Supply—Source, artesian wells; system, gravity; cap 100 bbls, each; works owned by city; cost to construct \$2,000. Supt, H. Hodges.*

Lexington, Sanilac Co., population 800; fire area 480 acres; mercantile buildings, brick, 2 sto-

ries; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, hand grenades; hose, linen good 1,000 ft, poor 250 ft, rubber good 200 ft, 200 ft linen unlined; value of fire department equipment \$1,500; value of buildings occupied \$10,000; total ann expenses of department \$200; total membership 53, all volunteers; bell alarm; 2 fire companies. Chief engineer, Geo. Henry.

WATER SUPPLY—Source, springs; system, gravity; 12 tanks; 14 hydrants.

Lowell, Kent Co., population 1,829; mercantile buildings, brick and wood, 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft; value of equipment \$2,500; value of buildings occupied \$1,000; total membership 20, paid part time; bell alarm. Chief engineer, J. C. Moore.

Water Supply—Source, 20 wells; system, pumping to reservoir and direct; cap 60,000 gals; pumping engines, dy cap 100,000 gals; 60 hydrants; pipe 10 miles, 6 to 8 in dia; 35 valves; 300 taps; pressure 65 pounds; cost to construct \$25,000, cost to date \$60,000; ann expenses \$1,500. Supt, A. C. Phelps.

Ludington, Mason Co., population 7,517; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; 2 winter sleighs; hose, cotton good 4,500 ft; Gamewell alarm; 5 street boxes; total membership 27, paid. Chief engineer, Orville Bipp.

Water Supply—Source, Lake Michigan system, direct; pumping engines, dy cap 5,000,000 gals; 151 hydrants; pipe 13½ miles, 4 to 16 in dia; 66 valves; 561 taps; pressure, domestic 40, fire 80 to 100 pounds; waterworks owned by company; cost to construct to date \$134,001; ann expenses \$5,000. Pres, C. G. Wing; supt, H. L. Williams.

Lyons, Ionia Co., population 612; fire area 1 sq mile; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft, linen inferior 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total membership 25, all volunteers; bell alarm. Chief engineer, Sterling Elsworth.

Water Supply—Source, Mill race; system, direct; 7 hydrants; 1,500 ft pipe. Supt, L. H. Hale.*

Mancelona, Antrim Co., population 1,650; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, 1 hose sled; hose, cotton good 1,000 ft; value of buildings occupied \$500; total membership 30, volunteers; electric bell alarm. Chief engineer, Ed. Bennett.

Water Supply—Source, 12 driven wells; system, pumping direct into mains; pumping engines, dy cap 1,500,000 gals; hydrants 30; pipe 3 1-8 miles, 4 to 8 in dia; 23 valves; 175 taps; pressure, domestic 30 to 40, fire 70 pounds; waterworks owned by city; cost to construct \$16,000; ann expenses \$1,000. Chairman of Water Board, A. Kimball.

Manchester, Washtenaw Co., population 1,191. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; hose, 1,000 ft; total membership 60, volunteers. Chief engineer, B. C. Lovejoy.*

Water Supply—Source, river; 5 reservoirs, cap 600 lbs each. Mayor, C. W. Case; village clerk, E. Lewis.

Manistee, Manistee Co., population 13,000; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits and 12 in walls required; fireworks ordinance. Fire department—1 steam fire engine, 1 horse hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 4,800 ft, inferior 1,000 ft; 3 hoses, value \$700; value of fire department equipment \$8,075; value of buildings occupied \$10,000; total ann expenses of department \$18,000; total membership 9, paid full time; Detroit electric alarm; street boxes 31; 1 fire company. Chief engineer, T. J. Scott.

Water Supply—Source, wells; system, direct; pumping engines, dy cap 3,500,000 gals; hydrants 38; pipe 15½ miles, 4 to 16 in dia; 50 valves; 53

meters; pressure 60 to 140 pounds; waterworks owned by company; cost to construct \$175,000; ann expenses \$6,000. Supt, S. A. Cahill.*

Manistique, Schoolcraft Co., population 4,000; buildings, wood, 2 stories. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 2,000 ft, inferior 300 ft; value of fire department equipment \$2,400; total membership 150, volunteers; bell alarm. Chief engineer, E. C. Brown.

Water Supply—Source, artesian wells, cisterns and river. Pres, M. H. Quick.

Manton, Wexford Co., population 900; fire area 300 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 450 ft, rubber inferior 300 ft; value of fire department equipment \$1,500; value of buildings occupied \$800; total ann expenses of department \$85; total membership 36, volunteer members 36. Chief engineer, William A. Hall.

Water Supply—Source, cisterns. A system of works will be put in this year.

Marine City, St. Clair Co., population 3,268; fire area 300 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, rubber inferior 1,000 ft; value of equipment \$2,000; value of buildings occupied \$1,000; total membership 70, all volunteers; Detroit electric system of fire alarm and whistle; 8 street boxes; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, R. A. Garrison.*

Water Supply—Source, St. Clair river; system, direct; pumping engines, dy cap 1,500,000 gals; 66 hydrants; pipe 14 miles, 4, 6 and 8 in dia; 37 valves; pressure, domestic 30, fire 75 pounds; waterworks owned city; cost to construct to date \$40,000; ann expenses \$1,780; int on bonds 5 per cent. Water com, Paul Vollman.

Marquette, Marquette Co., population 12,000; fire area 300 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; hose, cotton good 3,400 ft; 5 hoses, value \$1,250; value of fire department equipment \$10,000; value of buildings occupied \$6,000; total ann expenses of department \$3,900; total membership 32, paid full time 3, paid part time 30; electric alarm; 20 street boxes. Chief engineer, L. F. Crary.

Water Supply—Source, Lake Superior; system, direct; pumping engines, dy cap 3,000,000 gals each pump; 169 hydrants; pipe 18½ miles, 3 to 20 in dia; 187 valves; 1,373 taps; pressure, domestic 90, fire 125 pounds; Edson pressure recording gauge; works owned by city; cost to construct \$80,000, to date \$298,556; ann expenses \$20,518. Supt, John P. Kern.

Marshall, Calhoun Co., population estimated 4,500; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 2,700 ft, inferior 200 ft, rubber inferior 200 ft; 4 hoses, value \$1,000; value of fire department equipment \$12,000; value of buildings occupied \$7,000; total membership 42, paid full time 2, paid part time 25, volunteer members 15; bell and electric alarm. Chief engineer, Wm. E. Mann.

Water Supply—Source, wells; system, gravity; pumping engines, dy cap 2,000,000 gals; 95 hydrants; pipe 9 3-4 miles, 4 to 12 in dia; 58 valves; 18 meters; quality of water good; pressure, domestic 60, fire 100 pounds. Supt, W. B. Smith.

Mason, Ingham Co., population 2,500; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages, all kinds; hose, rubber good 1,550 ft, inferior 50 ft; value of fire department equipment \$4,500; value of buildings occupied \$2,000; total ann expenses of department \$350; total membership 12.

paid part time; bell and whistle alarm. Chief engineer, Geo. A. Aaker.

WATER SUPPLY—Source, flowing wells; system, pumping to standpipe and direct; standpipe 103 ft high, 15 ft dia, cap 136,525; pumping engine, dy cap 1,000,000 gals; 58 hydrants; pipe 6 miles, 10, 8, 6, 4 in dia; 22 valves; 136 taps; pressure, domestic 50, fire 120 pounds; works owned by city; cost to construct \$35,000, to date \$39,000; ann expenses \$1,400. Supt, C. S. Casterlin.

Menominee, Menominee Co., population 14,000; fire area 18,000 acres; mercantile buildings, brick, 2 to 4 stories; private, wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 3 hose wagons, 3 hose sleds and 1 cutter; hose, cotton good 2,700 ft, inferior 300 ft, rubber good 3,850 ft, inferior 400 ft, 300 ft good leather; 12 horses, value \$2,400; value of fire department equipment \$27,000; value of buildings occupied \$14,000; total ann expenses of department \$15,000; total membership 20, paid full time; electric alarm; 65 street boxes; 5 fire companies. Chief engineer, J. H. Kratz.

WATER SUPPLY—Source, Green Bay; system, pumping direct; pumping engine, dy cap 6,000,000 gals; 261 hydrants; pipe 23 1-3 miles, 4 to 16 in dia; 384 valves; 1,140 taps; pressure, domestic 40, fire 120 pounds; works owned by company. Supt, Geo. E. Wilde.

Midland, Midland Co., population 2,277; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department not reported.*

WATER SUPPLY—Source, Chippewa river; system, pumping direct; dy cap 500,000 gals; 32 hydrants; pipe 5 miles; quality of water good; works owned by city; cost to construct \$20,000. Supt, Chas. Fournia.*

Milford, Oakland Co., population 1,200; fire area 1½ sq miles; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 900 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of department \$250; total membership 100, paid full time 1, paid part time 99; 2 bells alarm. Chief engineer, D. H. Levanclar.

WATER SUPPLY—Source, lake, located 1 mile from town, wells and cisterns. (Waterworks contemplated.)

Mio, Oscoda Co., population 500; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hose carriage; hose, linen good 500 ft. Chief, John Randall.

WATER SUPPLY—Source, spring, creek; system, pump to reservoir; pipe ½ mile; cost to construct \$4,000; 5 hydrants. Supt, John Randall.

Monroe, Monroe Co., population 6,000; fire area 50 acres; mercantile buildings, brick, 3 stories; private, brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon, siamese couplings; hose, cotton good 3,000 ft; value of fire department equipment \$8,000; value of buildings owned \$10,000; total membership 52, paid part time; electric bell alarm. Chief engineer, J. Martin.

WATER SUPPLY—Source, Lake Erie; system, direct; pumping engine, dy cap 3,000,000 gals; 134 hydrants; pipe 18½ miles, 4 to 20 in dia; 98 valves; 24 meters; pressure 50 to 150 pounds; original cost to construct \$124,000; to date \$134,000; ann expenses \$6,400. Supt, J. C. Sterling.*

Montague, Muskegon Co., population 1,623; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,400 ft; value of fire department equipment \$6,000; value of buildings occupied \$5,000; total ann expenses of department \$150; total membership 20, volunteers; whistle and bell alarm. Chief engineer, A. L. Dickinson.

WATER SUPPLY—Source, creek fed by springs; system, pumping direct; cap of pump 4,300 gals

per min; 7 hydrants; pipe ¼ mile, 4 in dia; mills have 1,800 ft hose and 10 hydrants; works owned by city. Supt, A. L. Dickinson.

Moremel, Lenawee Co., population 1,500; fire area 2 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft, rubber inferior 400 ft; value of fire department equipment \$1,800; value of buildings occupied \$3,500; total ann expenses of department \$250; total membership 80, volunteers; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, T. F. Drake.

WATER SUPPLY—Source, 5 wells; 20 hydrants.

Mount Clemens, Macomb Co., population 6,000; fire area 3½ sq miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,600 ft, inferior 250 ft, rubber good 400 ft; 3 horses, value \$800; value of fire department equipment \$6,950; value of buildings occupied \$3,000; total ann expenses of department \$950; total membership 38, paid full time 2, paid part time 38; bell and whistle alarm. Chief, M. M. Smith.

WATER SUPPLY—Source, Clinton river; system, direct in mains; pumping engine, dy cap 2,000,000 gals; 117 hydrants; pipe 9 miles, 4, 6, 8, 10, 12 in dia; 64 valves; 359 taps; pressure, domestic 50, fire 100 pounds; works owned by city; cost to construct \$50,000; cost to date \$65,000; ann expenses \$8,000. Supt, H. Orbita.

Mt. Morris, Genesee Co., population 400; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, siamese couplings; hose, cotton good 200 ft, rubber good 400 ft, inferior 60 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$35; total membership 30, volunteers; bell alarm. Chief engineer, J. H. Bement.*

WATER SUPPLY—Source, 10 wells, cap 4,000 gals each. Town clerk, A. L. Adams.*

Mt. Pleasant, Isabella Co., population 2,701; fire area ¼ sq mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,700 ft, inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$800; total ann expenses of department \$500; total membership 42, paid part time; bell alarm; 3 fire companies. Chief engineer, Francis H. Law.*

WATER SUPPLY—Source, flowing well; system, pumping to tanks and direct; standpipe cap 40,000 gals; pumping engine, dy cap 800,000 gals; hydrants 45; pipe 6½ miles, 2 to 8 in dia; 30 valves; pressure, domestic 40, fire 70 to 120 pounds; works owned by city; cost to construct \$41,500; ann expenses \$1,000. Supt, Chas. D. Smith.

Muskegon, Muskegon Co., population about 25,000; fire area 6,000 acres; mercantile buildings, brick, stone and wood, 2 to 5 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 6 hose carriages, 2 supply wagons; hose, cotton good 12,200 ft, inferior 1,500 ft; 22 horses, value \$4,900; value of fire department equipment \$42,000; value of buildings occupied \$30,000; total ann expenses of department \$24,000; total membership 53, paid full time 31, paid part time 22; Gamewell electric alarm; street boxes 32; 9 fire companies, 1 engine company, 3 hook and ladder companies, 6 hose companies. Chief engineer, James P. Fallon.

WATER SUPPLY—Source, Lake Michigan (new supply); system, direct; pumping engine, dy cap 8,000,000 gals; hydrants 400; pipe 37 miles, 4 to 24 in dia; 275 valves; 1,700 taps; pressure, domestic 50, fire 80 pounds; works owned by city; cost to construct \$221,286; new works \$250,000; total to date \$471,286; ann expenses \$13,000. Supt, William Dixon.

Nashville, Barry Co., population 1,500; fire area 1 sq mile; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total membership 37, paid part time; bell alarm. Chief engineer, Len W. Feighner.

WATER SUPPLY—Source, flowing wells (3); system, pumping to standpipe and direct; standpipe cap 70,000 gals; pumping engines, dy cap 750,000 gals; hydrants 32; pipe $\frac{3}{4}$ miles, 4, 6, 8 in dia; 25 valves; 60 taps; pressure, domestic 68, fire 120 to 160 pounds; works owned by village; cost to construct \$20,000; ann expenses \$800. Pres. H. R. Dickenson; secy, C. W. Smith.

Negaunee, Marquette Co., population 7,800; fire area 60 acres; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, rubber good 1,600 ft, inferior 200 ft, cotton good 700 ft, poor 200 ft; 3 horses, value \$600; value of fire department equipment \$13,000; value of buildings occupied \$7,000; total ann expenses of department \$2,700; total membership 70, volunteers; bell alarm. Chief engineer, Henry Ler.

WATER SUPPLY—Source, lake; system, pumping direct; pumping engines, dy cap 2,000,000 gals; 58 hydrants; pipe 14 miles, 4 to 10 in dia; 190 valves; 682 taps; pressure, domestic 60, fire 80 pounds; waterworks owned by city; original cost to construct \$20,000; expenses of construction to date \$23,000; ann expenses \$5,500. Chairman of com, James Mathews; supt, Daniel Harrington.

Newaygo, Newaygo Co., population 1,800; fire area 300 acres; mercantile buildings, wood and brick, 1 to 3 stories. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft, inferior 300 ft; value of equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of department about \$300; total membership 40; electric alarm. Chief engineer, B. E. Burton.

WATER SUPPLY—Source, wells and springs; system, direct; pumping engines; 14 hydrants; pipe 2 miles, 4 to 8 in dia; 5 valves; pressure, domestic 12 to 40, fire 108 pounds; works owned by city; cost to construct \$12,000; ann expenses \$1,000. Pres of com, Thos. Cook; supt, B. Burton.

Niles, Berrien Co., population estimated 5,000; fire area 80 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, principally wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 300 ft, rubber good 2,700 ft, inferior 500 ft; value of fire department equipment \$10,000; value of buildings occupied \$5,000; total ann expenses of department \$1,500; total membership 62, paid; bell alarm; 4 fire companies, 4 hose companies. Chief engineer, John Manchester.*

WATER SUPPLY—Source, lake 4 miles east of city; system, gravity, to reservoir, cap 300,000 gals; 50 hydrants; pipe 9 miles, 12 in dia; quality of water good; pressure 45 pounds; works owned by company; cost to construct \$45,000. Supt, Ernest Bacon.

North Muskegon, Muskegon Co., population 1,600; fire area 3 miles by $\frac{1}{2}$ mile; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 2,000 ft, inferior 400 ft; value of fire department equipment \$2,500; value of buildings occupied \$50,000; total membership 45, volunteer members; electric alarm; 9 street boxes. Robert W. Hay.*

WATER SUPPLY—Source, lake; system, pumping into main; 39 hydrants; pipe $\frac{1}{4}$ miles, 4 to 12 in dia; 20 valves; pressure, domestic 40 to 50, fire 60 to 120 pounds; works owned by city; cost to construct \$30,000; ann expenses \$2,000. Supt, Robt Hay.*

Northville, Wayne Co., population 2,000; fire area 640 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance.

Fire department—1 chemical engine, 10 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, buckets; hose, cotton good 1,700 ft; value of fire department equipment \$1,500; value of buildings \$3,000; total ann expenses of department \$100; total membership 25, volunteers; triangle and whistle alarm. Chief, J. M. Burgess.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 2,500,000 gals; 50 hydrants; pipe 8 miles, 4 to 10 in dia; 40 valves; 110 taps; pressure, domestic 50 pounds, fire same; works owned by city; cost to construct \$33,000; to date \$40,000. Chair of comm, F. N. Clark.

Norway, Dickinson Co., population not reported.

WATER SUPPLY—Source, shaft at Ogeon mine; system, pumping to reservoir; reservoir cap 188,000 gals; pumping engines, dy cap 750,000 gals; 58 hydrants; pipe 6 miles, 10 to 2 in dia; 55 valves; pressure, domestic 100, fire 60 pounds; waterworks owned by city; original cost to construct \$31,000. Mayor, E. C. Flannigan; city clerk, Charles Swanson.*

Olivet, Eaton Co., population 800; fire area $\frac{1}{2}$ mile square; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$250; total ann expenses of department \$15; total membership 60, volunteers; bell and whistle alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Geo. W. Keyes.

WATER SUPPLY—Source, 12 cisterns.

Ontonagon, Ontonagon Co., population 2,000; fire area 320 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 400 ft, rubber 2,500 ft; 3 horses; value of fire department equipment \$8,200; value of buildings occupied \$1,500; total membership 36, volunteers; bell alarm. Chief engineer, Jas. Corgan; foreman, Joseph Haight.

WATER SUPPLY—Source, rivers and wells.

Oscoda, Iosco Co., population 3,588; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 6 hose carriages, all kinds; hose, cotton good 5,000 ft; value of fire department equipment \$5,000; value of buildings \$2,000; total ann expenses of department \$2,500; total membership 20, volunteers; electric whistle and bell alarm. Chief engineer, A. Bonnonfont.

WATER SUPPLY—Source, Lake Huron; system, direct; pumping engines, dy cap 2,000,000 gals; 47 hydrants; pipe 5 miles, 8 to 4 in dia; 25 valves; 230 taps; pressure, domestic 40, fire 100 to 180 pounds; cost to construct \$24,000; ann expenses \$3,500. Pres, E. C. Beessa; supt, H. N. Hewlett.

Oshtego, Allegan Co., population 2,387; fire area 1,100 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—15 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; 1 hose wagon; hose, cotton good 1,600 ft, rubber good 250 ft; value of fire department equipment \$1,800; value of buildings occupied \$2,500; total ann expenses of department \$300; total membership 65; whistle and bell alarm. Chief engineer, E. R. Conrad.

WATER SUPPLY—Source, mill race and cisterns; system, direct; pumping engines, dy cap 1,500,000 gals; 26 hydrants; pipe $\frac{3}{4}$ miles, 4 to 8 in dia; 8 valves; 101 taps; pressure, domestic 40, fire 90 to 100 pounds; works owned by city; cost to construct \$14,000; ann expenses \$150. Supt, C. I. Clapp.

Ovid, Clinton Co., population 1,423; buildings, brick and wood, 2 stories. Fire department—2 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$5,400; value of buildings occupied \$1,500; total ann expenses of department \$1,250; total membership 9, paid full time; bell alarm. Chief engineer, Wm. Stevens.

WATER SUPPLY—Source, 20 wells; system, pumping into tank; tank cap 66,000 gals; pumping en-

gines, dy cap 1,000,000 gals; hydrants 34; pipe 4½ miles, 8 to 3 in dia; 24 valves; 2 meters; 250 taps; pressure, domestic 35, fire 80 pounds; waterworks owned by city; cost to construct \$15,000; cost to date \$17,278; ann expenses \$2,000. Supt, Ed. Luly.

Owosso, Shiawassee Co., population 10,000; fire area 2 sq miles; mercantile buildings, stone, brick and iron, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 2 hose wagons; hose, rubber good 4,000 ft; 4 horses, value \$700; value of fire department equipment \$12,000; value of buildings occupied \$10,000; total ann expenses of department \$750; total membership 19, paid full time 3, volunteer members 16; Gamewell electric alarm; 8 street boxes, 4 private boxes; total no. of fire companies 4, engine companies 1, hook and ladder company, 2 hose companies. Chief engineer, Moses Keyte.

WATER SUPPLY—Source, wells and large cistern; system, direct; reservoir cap 50,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 112; pipe 18½ miles, 4 to 16 in dia; pressure, domestic 50, fire 90 pounds; waterworks owned by city; cost to construct \$80,000; cost to date \$91,177; ann expenses \$4,349. Supt, Chas. H. Cassatt.

Oxford, Oakland Co., population 1,200; fire area 160 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft; value of fire department equipment \$2,000; value of buildings occupied \$4,000; total ann expenses of department \$250; total membership 20, volunteers; triangle alarm. Chief engineer, C. J. Van Wagoner.

WATER SUPPLY—Source, wells and cisterns.

Palmer, Marquette Co., population 1,011; fire area 2 miles; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY (Same as Negaunee.)

Paw Paw, VanBuren Co., population 1,391; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; metal roofs. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, siamese couplings; hose, cotton good 2,000 ft; value of fire department equipment \$4,000; total ann expenses of department \$200; total membership 50, volunteers; bell alarm. Chief engineer, A. T. Stevenson.

WATER SUPPLY—Source, river, wells and cisterns; 8 tanks, cap 150,000 gals; pipe 1 mile; pressure 140 lbs; works owned by city. Supt, L. W. Litbeck.

Pentwater, Oceana Co., population 2,000; fire area 30 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,000 ft, cotton good 800 ft; 2 horses; value of buildings occupied \$4,000; total ann expenses of department \$1,700; total membership 24, paid full time 2; bell alarm. Chief engineer, G. W. Flood.*

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines, dy cap 350,000 gals; hydrants 17; pipe 2½ miles, 8 and 4 in dia; taps 200; 12 valves; pressure, domestic 40 pounds, fire 100 pounds; waterworks owned by city; original cost to construct \$9,000; expenses of construction to date 12,000; ann expenses \$1,500. P. H. Adams, engineer.

Petersburgh, Monroe Co., population 700; fire area 200 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—hooks, ladders and buckets.*

WATER SUPPLY—Source, wells and river.*

Petoskey, Emmet Co., population 4,500; fire area 80 acres; mercantile buildings, brick, steel and wood, 2 and 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, 1 hose wagon; hose, cotton good 1,500 ft, rubber good 250 ft; value of fire department

equipment \$2,000; value of buildings occupied \$150; total ann expenses of department \$350; total membership 13, paid full time; bell, whistle and electric fire alarm; no of street boxes 5. Chief engineer, J. A. C. Rowan.

WATER SUPPLY—Source, wells and springs; system, pump to reservoir, cap 147,000 gals; pumping engines, dy cap 500,000 gals; 31 hydrants; pipe 6½ miles, 4 to 10 in dia; 30 valves; 230 taps; pressure, domestic 10 to 80, fire 30 to 95 pounds; works owned by city; cost to construct \$24,000; ann expenses \$1,000. Supt, M. D. Wingate.

Pineconing, Bay Co., population 1,000; fire area 100 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, 1 hook and ladder truck, 1 hose wagon; hose, linen good 1,000 ft, rubber good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$250; membership 10, volunteers; whistle alarm. Marshal, James Pawrie.

WATER SUPPLY—Source, ponds; system, pumping direct; reservoir cap 1,000 bbls; pumping engines, dy cap 1,000,000 gals; 15 hydrants; pipe 1½ miles, 8 to 4 in dia; 8 valves; pressure, domestic 40, fire 80 pounds; works owned by village; cost to construct \$8,052; ann expenses \$300. Supt, C. A. Johnson.

Plainwell, Allegan Co., population 1,414; fire area 200 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—8 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 1,200 ft, inferior 500 ft; value of fire department equipment \$1,600; value of buildings occupied \$1,500; total ann expenses of department \$350; total membership 90, volunteers; automatic striking bell alarm. Chief engineer, L. E. Irland.

WATER SUPPLY—Source, river; system, pumping to compression chamber, cap 1,200 gals; pumping engines, dy cap 1,500,000 gals; 37 hydrants; 4 miles pipe; 6 valves; pressure 40 to 80 pounds; works owned by village; cost to construct to date \$24,750; ann expenses \$425. Supt, E. K. Root.

Pontiac, Oakland Co., population 7,000; buildings, brick, 2 and 3 stories; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, siamese couplings; hose, cotton good 2,500 ft, poor 1,500 ft; 4 horses, value \$800; value of fire department equipment \$35,000; value of buildings owned \$1,000; total ann expenses of department \$3,500; total membership 17, paid part time 15, 2 men continually at engine house; Gamewell alarm; 25 boxes. Chief engineer, Geo. H. Foster.

WATER SUPPLY—Source, artesian wells; system, direct; pumping engines, dy cap 3,000,000 gals; 121 hydrants; pipe 18 miles, 4 to 16 in dia; 80 valves; 433 taps; pressure, domestic 45, fire 150 pounds; waterworks owned by city; cost to construct \$85,000; cost to date \$90,616; ann expenses \$8,216. Supt, H. G. Monroe.

Port Huron, St. Clair Co., population 13,543; mercantile buildings, brick, 2 to 5 stories; private, wood, 2 and 3 stories. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, all kinds, 3 hand carts in reserve; hose, rubber good 2,500 ft, inferior 1,000 ft, cotton good 500 ft, poor 500 ft; 4 horses; value of buildings occupied \$12,000; total ann expenses of department \$4,950; total membership 15, 1 paid full time, 14 part; telegraph and telephone alarm; 6 street boxes. Chief engineer, George A. Humer.*

WATER SUPPLY—Source, St. Clair river; system, direct; pumping engines, dy cap 19,000,000 gals; 247 hydrants; pipe 47 ¾ miles, 4 to 20 in dia; 564 valves; 2,734 taps; quality of water first class; pressure, domestic 40, fire 60 to 150 pounds; waterworks owned by city; cost to construct to date \$311,000; ann expenses \$11,321; int on bonds \$6,550. Supt, Hugh F. Doren.

Portland, Ionia Co., population 1,673; fire area 1½ miles sq; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—8 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,000 ft, inferior 400 ft; 2 horses, value \$300; value of fire department equipment

\$4,000; value of buildings occupied \$2,000; total membership 25, volunteers; electric alarm; 22 street boxes. Chief engineer, E. M. Clark.*

WATER SUPPLY—Source, Looking Glass river and wells; system, pump to standpipe, cap 86,000 gals; pumping engines, dy cap 1,500,000 gals; 47 hydrants; pipe 3 1/4 miles, mostly 6 in dia; 24 gates; 8 meters; quality of water first-class; pressure 80 pounds; water works owned by company; cost to construct \$30,000. Supt, A. F. Derby.

Quincy, Branch Co., population 1,300; mercantile buildings, brick and wood, 2 stories; private, wood, 1 1/2 and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, alarm couplings; hose, rubber good 1,500 ft, poor 500 ft, cotton good 1,000 ft, linen good 600 ft; value of fire department equipment \$3,400; value of buildings occupied \$2,500; total membership 100, volunteers; bell alarm. Chief engineer, H. A. Graves.

WATER SUPPLY—Source, 16 wells.

Reed City, Osceola Co., population 2,500; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft, inferior 400 ft; value of equipment \$2,000; total ann expenses of fire department \$150; total membership 50, volunteers. Chief engineer, H. C. Stoddard.

WATER SUPPLY—Source, wells and creek; system, direct; pumping engines, dy cap 1,000,000 gals; 24 hydrants; pipe 3 1/2 miles, 6 to 10 in dia; 400 taps; pressure, domestic 60, fire 100 pounds; works owned by company; cost to construct \$12,000; ann expenses \$1,500. Supt, B. F. Edwards.

Richmond, Macomb Co., population 2,500; fire area 1 mile; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 1,000 ft; value of buildings occupied \$2,000; total membership 40, volunteers; bell alarm.*

WATER SUPPLY—(Source not reported).

Romeo, Macomb Co., population 2,000; fire area 640 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, rubber inferior 600 ft; value of fire department equipment \$10,000; value of buildings occupied \$2,000; total ann expenses of department \$400; membership 25, paid part time; bell alarm; 3 fire companies, engine companies 1, 1 hook and ladder company, 1 hose company. Chief engineer, M. P. Owen.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; cap of standpipe 100,000 gals; pumping engines, dy cap 1,600,000 gals; 71 hydrants; 8 miles of pipe, 12 to 4 in dia; 30 valves; 158 taps; pressure 65 pounds; works owned by city; cost to construct \$36,000, to date \$36,000; ann expenses \$1,300. Chairmen of board and supt, Albert Kennedy.

Roscommon, Roscommon Co., population 850; fire area 1/2 mile sq; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$2,000; total ann expenses of fire department about \$300; total membership 16; bell alarm. Chief engineer, W. W. Vaughn.

WATER SUPPLY—Source, running creek; water pumped to tank, cap 50,000 gals; 9 hydrants; pipe 1 mile; pressure 28 pounds; works owned by city; cost to construct \$5,000; ann expenses \$300. Pres, W. W. Vaughn; supt, C. Warden.

Saginaw, Including East Saginaw, Saginaw Co., population 55,000; fire area 1,000 acres; mercantile buildings, brick and wood, 1 to 5 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hook and ladder trucks, 9 hose carriages, all kinds; 17,000 feet of hose; 22 horses; value of fire department equipment \$100,000; value of buildings occupied \$17,000; total ann expenses of department \$35,000; total membership

40, paid full time; telegraph and telephone alarm. Chief engineer, George W. Wallis.*

WATER SUPPLY—Source, Saginaw river; system, pumping direct; pumping engines, dy cap 24,000,000 gals; 675 hydrants; pipe 78 miles, 3 to 30 in dia; 557 valves; 3,800 taps; pressure, domestic 55, fire 80 pounds; waterworks owned by city; original cost to construct \$400,000; expenses of construction to date \$1,250,000; ann expenses \$42,000. Supt, John Weller; secy, F. D. Keeler.

St. Charles, Saginaw Co., population 900; fire area 640 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 300 ft, inferior 200 ft; value of fire department equipment \$1,400; value of buildings occupied \$1,000; total ann expenses of department \$200; total membership 64, volunteers; bell alarm; 3 fire companies. Chief engineer, Frank W. Hamilton.

WATER SUPPLY—Source, river tanks.

St. Clair, St. Clair Co., population 2,500; fire area 300 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, linen good 1,300 ft; total membership 30, volunteers. Chief engineer, D. P. Ingles.

WATER SUPPLY—Source, St. Clair river; system, direct; pumps, dy cap 1,600,000 gals; 45 hydrants; pipe 10 miles; pressure, domestic 40 pounds, fire 125 pounds; works owned by city. Supt, C. F. Grace.

St. Ignace, Mackinac Co., population 2,704; fire area 400 acres; mercantile buildings, wood, 1 to 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton 1,000 ft, rubber good 500 ft, inferior 150 ft; value of fire department equipment \$9,000; value of buildings occupied \$4,000; total membership 20, volunteers, paid part time. Chief engineer, Thos. Johnson.

WATER SUPPLY—Source, Lake Huron; system, pump to standpipe, cap 85,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 40; pipe 4-3 1/4 miles, 2 to 12 in dia; 12 valves; pressure, domestic 60, fire 160 pounds; works owned by city; cost to construct \$38,000; cost to date \$40,000; ann expenses \$1,500. Pres of com, John Mulcrone.*

St. Johns, Clinton Co., population 3,127; fire area 500 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 2,400 ft, inferior 1,350 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses of department \$137; total membership 65; bell alarm. Chief engineer, William Crick.

WATER SUPPLY—Source, wells; system, direct; reservoir cap 250,000 gals; dy cap 2,000,000 gals; pumping engines; hydrants 60; pipe 14 miles, 1 to 10 in dia; 75 valves; pressure, domestic 40, fire 100 pounds; waterworks owned by city; cost to construct \$60,000; ann expenses \$3,000. Supt, J. B. Henderson.

St. Joseph, Berrien Co., population 5,900; fire area 9 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages, 4 ladders; hose, rubber good 800 ft, inferior 800 ft, cotton 1,200 ft; 2 horses, value \$300; value of fire department equipment \$6,800; value of buildings occupied \$900; total ann expenses of department \$1,100; total membership 23, paid full time 3, paid part time 20; bell alarm. Chief engineer, James C. Shuler. (Proposed additions: hook and ladder truck.)

WATER SUPPLY—Source, system just completed; combined standpipe and direct pressure; pipe 10 1-8 miles; 88 and 2 plug hydrants; cap of plant 3,000,000 gals; cost to construct \$68,000. Pres of village, A. H. Scott; village clerk, Chas. Kreier.*

St. Louis, Gratiot Co., population 3,467; mercantile buildings, brick and stone, 2 to 4 stories; private, wood, 2 stories; wooden roof are not permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage,

1 hose wagon; hose, cotton good 2,000 ft. inferior 750 ft.; 3 hoses, value \$400; value of fire department equipment \$4,000; value of buildings occupied \$5,000; total ann expenses of department \$965; total membership 15, paid full time 1, paid part time 14; bell alarm. Chief engineer, John T. Noble.

WATER SUPPLY—Source, artesian wells; system, pumping direct; reservoir cap 90,000 gals; pumping engines, dy cap 1,000,000 gals; 62 hydrants; pipe 7 miles, 4 to 10 in dia; 17 valves; 162 taps; pressure, domestic 40, fire 80 to 100 pounds; waterworks owned by city; cost to construct \$8,500; cost to date \$23,000; ann expenses \$900. Supt, John T. Noble.

Sand Beach, Huron Co., population 1,300; fire area 20 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft, inferior 150 ft, rubber good 100 ft; value of fire department equipment \$3,000; total membership 25, volunteers; steam whistle alarm. Chief engineer, J. G. Puddock.

WATER SUPPLY—Source, Lake Huron; system, pumping direct; pumping engines, dy cap 720,000 gals; 10 hydrants; pipe 1 mile; 2 valves; pressure 80 to 100 pounds; cost to construct \$4,000. Supt, J. G. Puddock.

Sarnac, Ionia Co., population 900. No organized fire department—1 hook and ladder truck. Village pres, Ed. F. Payne.*

Saugatuck, Allegan Co., population 900; fire area 200; mercantile buildings, wood, 2 stories; private, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,000; total ann expenses of department \$325; total membership 10, paid part time; bell alarm. Chief engineer, J. A. Aliber.

Sault Ste. Marie, Chippewa Co., population 5,760; mercantile buildings, brick, stone and wood, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 2,000 ft; 2 hoses, value \$500; value of fire department equipment \$2,750; value of buildings occupied \$2,000; total membership 30, volunteers; electric alarm; 10 street boxes. Chief engineer, Alexander McDonald.

WATER SUPPLY—Source, Sault Ste. Marie river; system, pumping direct; standpipe cap 250,000 gals; pumping engines, dy cap 2,500,000 gals; 80 hydrants; pipe 60,264 ft, 12 to 4 in dia; 47 valves; 675 taps; pressure, domestic 38, fire 75 to 90 pounds; waterworks owned by city; construction expenses to date \$70,000; ann expenses \$3,000. Supt, D. McGregor; F. M. Taylor, officer in charge of W. W.

Schoolcraft, Kalamazoo Co., population 900; fire area 400 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 400 ft, inferior 100 ft; value of fire department equipment \$700; total ann expenses of department \$100; value of buildings occupied \$1,500. Chief engineer, Jacob Bauer; no regular organized fire department.

WATER SUPPLY—Source, wells and cisterns; cap of cisterns 90,000 gals.

Shelby, Oceana Co., population 1,500; fire area 40 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, inferior 200 ft, cotton good 600 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,700; total ann expenses of department \$50; total membership 24, volunteers; bell alarm. Pres, E. B. Gaylord.

WATER SUPPLY—Source, cisterns and 13 reservoirs; waterworks owned by village; original cost to construct \$10,000 including engine; ann expenses \$200. Supt, C. Debbitt.

Sherwood, Branch Co., population 500; fire area 100 acres; mercantile buildings, wood, 2 sto-

ries; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—68 buckets and 20 ladders; hose, rubber good 200 ft, cotton good 300 ft; value of fire department equipment \$1,000; value of buildings occupied \$200.

WATER SUPPLY—Source, wells. City clerk, Edward Swain.

South Haven, Van Buren Co., population estimated 2,500; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted on new buildings; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck and buckets, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department apparatus \$2,500; value of buildings occupied \$3,500; membership 45, volunteers. Chief engineer, E. I. Hewson.

WATER SUPPLY—Source, Lake Michigan, through Cooke wells; system, pump to standpipe, cap 132,000 gals; pumping engine, dy cap 1,500,000 gals; 63 hydrants; pipe 6 miles, 10 to 4 in dia; 33 valves; 220 taps; pressure, domestic 40, fire 100 pounds; works owned by village; cost to construct \$37,400; cost to date \$38,200; ann expenses \$1,200. Supt, H. E. Dewey.

South Lyon, Oakland Co., population 900; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, rubber good 500 ft; value of fire department equipment \$1,600; value of buildings occupied \$2,500; total membership 35, volunteers. Chief engineer, G. W. Reed.*

WATER SUPPLY—Source, wells and cisterns. City clerk, E. M. Calkins.

Spring Lake, Ottawa Co., population 1,200; fire area 1 mile sq; buildings, wood and brick, 1 and 2 stories. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages, 2 hose couplings; hose, rubber good 3,000 ft; value of fire department equipment \$4,000; value of buildings occupied \$400; total membership 20, paid part time; whistle and bell alarm. Chief engineer, W. H. Barrette.

WATER SUPPLY—Source, wells, lake, river and 11 cisterns. Town clerk, C. M. Kay.

Stamton, Montcalm Co., population 1,352; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 force pump engine, 1 hook and ladder truck, 2 hose carriages, 2 hose couplings; hose, cotton good 1,500 ft, inferior 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$1,300; total membership 73, volunteers; bell alarm. Chief engineer, David L. McFaddon.*

WATER SUPPLY—Source, flowing wells; system, pumping direct; reservoir cap 2,783 bbls; pumping engines dy cap 750,000 gals; 30 hydrants; pipe 2-3-4 miles, 4 to 8 in dia; 255 taps; 10 valves; pressure, domestic, 55 fire 100 to 120 pounds; works owned by city; cost to construct \$10,000; ann expenses \$1,100. Supt, J. P. Shammann.

Sturgis, St. Joseph Co., population 2,489; fire area 640 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 700 ft, rubber good 950 ft; 2 hoses; value of fire department equipment \$6,000; value of buildings occupied \$2,500; total ann expense of department about \$1,000; total membership 42, paid part time; bell alarm. Chief engineer, J. W. Craig.*

WATER SUPPLY—Source, wells; system, direct; pumping engines, dy cap 1,600,000 gals; 65 hydrants; pipe 12 miles, 4 to 10 in dia; 56 valves; 416 taps; pressure, domestic 60, fire 125 pounds; waterworks owned by city; cost to construct \$29,467, to date \$430,750; ann expenses \$3,900. Pres of com, D. Kane; supt, F. H. Church.

Tawas, Iosco Co., population 2,000; fire area 1,000 acres; mercantile buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft, linen good 400 ft; value of department equipment \$2,700; value of buildings occupied \$1,200;

total ann expenses of department \$100; total membership 30, volunteers. Chief engineer, Thomson Connor.*

Tecumseh, Lenawee Co., population 2,310; fire area 17 acres; mercantile buildings, brick, 3 stories; private, wood, 3 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 2 hose carts; hose, cotton good 1,500 ft, rubber good 500 ft, inferior 700 ft; 2 horses, value \$600; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann expenses of department \$400; total membership 30, paid part time 3, volunteers 37; bell alarm; 2 hose companies. Chief engineer, S. W. Bordine.

WATER SUPPLY—Source, wells; system, pumping to standpipe, 15x120 ft; pumping engines, dy cap 1,000,000 gals; 76 hydrants; pipe 8 miles, 4 to 12 in dia; pressure, domestic 55, fire 55 to 80 pounds; works owned by village; cost to construct \$36,000; ann expenses \$150. Supt, E. N. Satterthwaite.

Three Oaks, Berrien Co., population 1,000; fire area 1 mile sq; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs are permitted; causes of fire investigated. Fire department—1 hand engine, 1 chemical extinguisher, 1 hose carriage; hose, rubber good 575 ft; value of buildings occupied \$300; total ann expenses of department \$75; total membership 28, volunteers; bell alarm. Chief engineer, Fred L. Phaldorf.

WATER SUPPLY—Source, 4 cisterns, cap 125 bbls each.

Three Rivers, St. Joseph Co., population 3,131; fire area 60 acres; mercantile buildings, brick and iron, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,100 ft; value of fire department equipment \$3,500; value of buildings occupied \$3,000; total ann expenses of department \$250; total membership 48, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, C. H. Saxe.*

WATER SUPPLY—Source, 9 wells; system, direct; pumping engines, dy cap 1,500,000 gals; 73 hydrants; pipe 7 miles, 8 to 4 in dia; 15 valves; 215 taps; pressure 30 to 100 pounds; cost to construct to date \$38,000; ann expenses \$1,000. Supt, E. H. Burger.

Traverse City, Grand Traverse Co., population 7,000; fire area 1,200; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1½ and 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; cotton, hose 2,800 ft; value of equipment \$3,000; value of buildings occupied \$6,000; expenses of department \$1,000; total membership 60, volunteers; electric alarm; 16 street boxes. Chief engineer, S. C. Despres. (Contemplated: fire engine and hose wagon.)

WATER SUPPLY—Source, Grand Traverse bay; system, direct; pumping engines, dy cap 4,500,000 gals; 76 hydrants; pipe 10 miles, 4 to 10 in dia; 36 valves; 440 taps; quality of water excellent; pressure 60 to 160 pounds; waterworks owned by company; cost to construct to date \$60,000; ann expenses \$3,000. Supt, D. F. Campbell.

Union, Branch Co., population 1,156; fire area 6 acres; mercantile buildings, brick, stone and iron, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hose carriage; hose, cotton good 1,500 ft; value of fire department equipment \$5,000; value of buildings occupied \$4,000; total ann expenses of department \$200; total membership 12, volunteer, comprising the Union City Fire Co. Chief engineer, Elmer Roe.*

WATER SUPPLY—Source, wells and cisterns.*

Vassar, Tuscola Co., population 2,800; fire area 360 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose rubber good 850 ft, inferior 50 ft; value of equipment \$1,200; value of buildings occupied \$2,000; members 12, paid; whistle alarm. Chief, William Grant.

WATER SUPPLY—Source, artesian wells and river; system, pumping direct; standpipe cap 1-

056,000 gals; reservoir cap 1,152,000 gals; pumping engines, dy cap 1,500,000 gals; 56 hydrants; pipe 6 1-4 miles, 4 to 10 in dia; 22 valves; pressure, domestic 75, fire 160 pounds; waterworks owned by village; cost to construct \$32,000; bonds \$30,000. Supt, W. J. Burnett.*

Vicksburg, Kalamazoo Co., population 9,060; buildings, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$2,000; total membership 77, volunteers. Chief engineer, Wm. W. Scott.*

WATER SUPPLY—Source, wells and cisterns; 1 hydrant at each well; wells owned by village.*

Wayne, Wayne Co., population 1,500; fire area 1 sq mile; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers and buckets; value of fire department equipment \$200; bell alarm. Chief engineer, F. Harris.

WATER SUPPLY—Source, wells.

West Bay City, Bay Co., population 13,000; fire area 3½ sq miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 3 hose carriages, all kinds, 1 4-wheeled cart and 1 2-wheeled cart; hose, cotton 2,500 ft, rubber good 1,800 ft, poor 400 ft; 7 horses value \$1,000; value of fire department equipment \$10,000; value of buildings occupied \$7,000; total ann expenses of department \$7,400; total membership 20, paid full time 3, paid part time 17; Gamewell electric alarm; 28 street boxes; 3 fire companies. Chief engineer, Geo. F. Russell.

WATER SUPPLY—Source, Saginaw river; system, direct; pumping engines, dy cap 3,000,000 gals; 144 hydrants; pipe 13½ miles, 4 to 14 in dia; 75 valves; 512 taps; pressure domestic 50, fire 100 pounds; waterworks owned by city; cost to construct \$80,000; ann expenses \$5,500. Supt, G. Kubach.

West Branch, Ogemaw Co., population 1,400; fire area 1 by 1½ miles; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft, inferior 300 ft; value of fire department equipment \$3,000; value of buildings \$700; total membership 60, volunteers. Chief engineer, A. C. Neilson.

WATER SUPPLY—Source, not reported.

White Cloud, Newaygo Co., population 800; fire area 80 acres; buildings, wood, 1½ and 2 stories. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of department buildings \$500; total ann expenses of department \$300; total membership 10, volunteers; bell alarm. Chief engineer, Frank Noble.

WATER SUPPLY—Source, White river; system, pumping direct; pumping engines, cap 800 gals per minute; pipe 1½ miles; 13 hydrants; 6 valves; pressure 60 to 120 pounds; cost \$8,000. Supt, Frank Noble.

Whitehall, Muskegon Co., population 2,500; fire area 1,000 acres; buildings, brick, 2 stories; shingle and gravel roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, fire-boats, ladders and simease couplings; 2,500 ft good cotton hose, and 700 ft of rubber; value of fire department equipment \$10,000; value of buildings occupied \$4,000; total membership 25; bell and electric fire alarm system; 4 street boxes. Chief, J. C. Haslaine.

WATER SUPPLY—Source, 4 drive wells; 4 cisterns filled by engine, cap of cisterns 2,750 barrels; system, pumping to reservoir, cap 48,000 gals; pumping engines, dy cap 1,500,000 gals; 31 hydrants; pipe 3 miles, 8 to 4 in dia; pressure domestic 40 to 50 lbs, fire 80 to 120 lbs; works owned by city; cost to construct \$21,000; ann expenses \$1,300. Supt, Thos. B. Widoe.

Williamston, Ingham Co., population 1,200; mercantile buildings, stone and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder

truck, 1 hose carriage; hose, cotton good 900 ft; value of fire department equipment \$4,000; total membership 9. Chief engineer, A. J. Kookwell.

WATER SUPPLY—Source, Cedar river; system, gravity; pipe 8 in dia; 15 reservoirs, 20 ft deep x 20 ft dia; works owned by village; original cost to construct \$1,200. Mayor, Scott Waldo.

Wyandotte, Wayne Co., population 3,817. Fire department—1 steam fire engine, 3 hose carriages; hose, rubber good 1,300 ft, linen 1,500 ft; total membership 18, volunteers. Chief engineer, G. Bamuler.*

WATER SUPPLY—Source, Detroit river; system, direct; pumping engines, dy cap 3,000,000 gals; 84 hydrants; pipe 7 1/2 miles, 4 to 16 in dia; 45 valves; 500 taps; pressure, domestic 25, fire 80 pounds; waterworks owned by city; cost to construct \$50,000; ann expenses \$3,400. Supt, H. N. Oobock.

Ypallanti, Washtenaw Co., population 6,128; fire area 1 mile square; mercantile buildings, brick, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—2 steam fire engines, 2 hose carriages, all kinds; hose, rubber good 1,800 ft, inferior 400 ft; 3 horses, value \$450; value of fire department equipment \$7,500; value of buildings occupied \$7,000; total ann expenses of department \$2,000; total membership 18, paid part time 6, paid full time 2, volunteers 8; bell alarm; 2 hose companies. Chief engineer, Wm. Robbins.

Aitkin, Aitkin Co., population 800; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages, all kinds; hose, rubber good 500 ft, cotton good 500 ft; value of fire department equipment \$1,500; total membership 25, volunteers; electric bell alarm. Chief engineer, James Boyd.*

WATER SUPPLY—Source, Mud river; system, pumping direct and to standpipe cap 1,800 barrels; pumping engines, dy cap 1,000,000 gals; hydrants 9; pipe 1 1/2 miles, 6 in dia; 6 valves; pressure, domestic 40, fire 150 pounds; waterworks owned by city; expenses of construction to date \$14,000. Pres, J. N. Marr; supt, P. Casey.

Albert Lea, Freeborn Co., population 4,000; mercantile buildings, brick, 2 stories; private, wood; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 100 ft, inferior 200 ft, rubber good 1,200 ft, inferior 300 ft; total membership 51, paid part time 3, volunteers 48; 1 engine company, 1 hook and ladder company. Chief engineer, W. C. Mitchell.

WATER SUPPLY—Source, fountain, lake; system, reservoir, pumping to reservoir and direct; reservoir cap 22,000 gals, standpipe cap 104,000 gals; pumping engines, dy cap 1,000,000 gals; 25 hydrants; pipe 2 1/2 miles, 10 to 6 in dia; 7 valves; 98 taps; pressure, domestic 50, fire 140 pounds; works owned by city; cost to construction to date \$33,000. Supt, W. S. Lookwood.

Alexandria, Douglas Co., population 2,118; fire area 4 blocks; buildings, brick and wood, 1 1/2 and 2 stories; fireworks ordinance. Fire department—2 chemical engines on wheels, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carts; hose, cotton good 1,500 ft; value of fire department equipment \$4,000; value of buildings occupied \$6,000; total ann expenses of department \$60; total membership 75, volunteers; bell and whistle alarm, putting in electric; 2 hose companies, 1 hook and ladder company. Chief engineer, G. A. Kortsch.

WATER SUPPLY—Source, wells; system, direct pumping; pumping engines, dy cap 1,000,000 gals; 20 hydrants; pipe 2 1/2 miles, 4 to 10 in dia; 8 valves; quality of water soft; pressure, domestic 60 to 80, fire 120 pounds; works owned by city; cost to construct \$18,000; ann expenses \$3,800. Recorder, Jas. Fitzgerald; chief engineer, C. A. Johnson.

Anoka, Anoka Co., population 4,252; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted on residences

WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 255,000 gals; pumping engines, dy cap 2,000,000 gals; 135 hydrants; pipe 18 miles, 4 to 16 in dia; 100 valves; 979 taps; pressure 92 to 98 pounds; waterworks owned by city; cost to construct \$140,000; cost to date \$150,000; ann expenses \$2,500. Supt, Robt. Simmons.

Zeeland, Ottawa Co., population 900; fire area 200 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; value of fire department equipment \$2,100; value of buildings occupied \$1,000; total ann expenses of department \$50; total membership 50, volunteers; bell alarm; 4 fire companies, 1 pail company, 1 pump company, 1 hook and ladder company, 1 hose company. Chief engineer, John D. Everhard.*

WATER SUPPLY—Source, wells; 5 hydrants; pipe 1 mile. Pres of village, G. Reppel.*

Zillwaukee, Saginaw Co., population 800; fire area 220 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 500 ft, inferior 500 ft, rubber good 700 ft, inferior 300 ft, linen good 500 ft.*

WATER SUPPLY—Source, river; 32 valves.*

MINNESOTA.

only; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 2,000 ft, poor 1,000 ft; 3 horses, value \$600; value of fire department equipment \$7,500; value of buildings occupied \$10,000; total ann expenses of department \$3,000; total membership 60, paid full time 1, paid part time 29, volunteers 30; electric alarm; 17 street boxes; 3 fire companies. Chief engineer, L. H. Bruns. (New hook and ladder proposed.)

WATER SUPPLY—Source, Rum river; system, pumping to standpipe and direct; standpipe 20 x 115; pumping engines, cap 2,500,000 gals; 65 hydrants; pipe 6 miles, 12 to 4 in dia; 20 valves; quality of water excellent; pressure, domestic 60, fire 130 pounds. Supt, Wm. J. Annon.

Austin, Mower Co., population 5,000; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages; hose, cotton good 1,900 ft, rubber good 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,500; total ann expenses of department \$600; total membership 40, volunteers; electric fire alarm system; 4 boxes. Chief engineer, Thomas Dugan.

WATER SUPPLY—Source, artesian well, domestic, Cedar river, fire; system, direct pumping; pumping engines, dy cap 2,000,000 gals; 59 hydrants; pipe 6 miles, 4 to 10 in dia; 56 valves; 3 meters; 280 taps; pressure, domestic 40, fire 80 pounds; waterworks owned by city; cost to construct \$40,000; to date \$42,000; ann expenses \$3,000. Supt, J. M. Greenman.*

Barnesville, Clay Co., population 1,800; fire area 40 acres; mercantile buildings, wood, 1 story; private, wood, 1 story; fireworks ordinance; wooden roofs permitted. Fire department—1 steam fire engine, 3 hand engines, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 900 ft, poor 150 ft, cotton good 1,400, poor 300 ft; value of fire department equipment \$5,000; value of buildings \$1,800; total membership 40, paid full time 14, part time 28; bell and whistle alarm. Chief engineer, D. Tulley.

WATER SUPPLY—Source, stream; system, pump direct to tanks, cap 500 barrels.

Blue Earth City, Faribault Co., population 2,700; fire area 8 acres; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber new 500 ft; value of fire department equipment \$7,800;

value of buildings occupied \$9,000; total membership 63, volunteers; bell alarm; 1 hook and ladder company, 1 hose company; fire police; bell and whistle alarm. Chief engineer, C. A. H. Kopplien.

WATER SUPPLY—Source, well; system, pumping to reservoir; pumping engine, dy cap 500,000 gals; 5 hydrants; pipe 1 mile, 8 and 10 in dia; 2 valves; quality of water good; pressure any desired; waterworks owned by city; cost to construct \$10,800, to date \$12,000; ann expenses \$600. Pres of com and supt, C. A. H. Kopplien.

Brainerd, Crow Wing Co., population 7,000; fire area 60 acres; mercantile buildings, stone, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, 1 supply wagon; hose, rubber good 3,500 ft, inferior 400 ft, cotton good 1,000 ft, linen good 2,500 ft; 2 horses, value \$500; value of fire department equipment \$10,000; value of buildings occupied \$3,000; total ann expenses of department \$3,000; total membership 85, paid full time 3, paid part time 15, volunteers 67; electric alarm; 4 street boxes; 5 fire companies, 1 hook and ladder company, 4 hose companies. Chief engineer, D. F. McIntosh. #

WATER SUPPLY—Source, Mississippi river; system, pumping direct; pumping engines; 80 hydrants; pipe 14 miles, 4 to 12 in dia; quality of water good; pressure, domestic 48, fire 100 pounds; works owned by company. Supt, Ambrose Tighe. #

Breckenridge, Wilkin Co., population 1,100; fire area 33 blocks; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 1,000 ft, inferior 200 ft; value of equipment \$2,000; value of buildings occupied \$500; membership 38, volunteers; whistle alarm. Chief, G. H. Hawks worth.

WATER SUPPLY—Source, river; system, pumping to tank, cap 50,000 gals; pumping engines, dy cap 500,000 gals; 12 hydrants; pipe 1½ miles; works owned by village; cost to construct \$10,800; cost to date \$12,000. Supt, D. E. Bronson.

Buffalo, Wright Co., population about 1,000; fire area 40 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$400; total membership 30, volunteers. Chief engineer, J. H. Wendell.

WATER SUPPLY—Source, wells and lake.

Caledonia, Houston Co., population about 1,100; fire area 35 acres; buildings, stone, brick and wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 60 buckets, 10 ladders, axes, etc; hose, cotton good 200 ft; value of fire department equipment \$250; total membership 35, volunteers. Chief engineer, J. W. Potter.

WATER SUPPLY—Source, deep well; system, pumping to standpipe, cap 10,000 gals; works owned by city; cost to construct about \$8,000; will be completed this year. Recorder, E. K. Roverund.

Camby, Yellow Medicine Co., population 1,000; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 350 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; membership 30, volunteers; bell alarm. Foreman, Charles Burg.

WATER SUPPLY—Source, wells and streams.

Cannon Falls, Goodhue Co., population 1,300; fire area 20 acres; buildings, stone and brick, 1½ and 2 stories. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 1,000 ft; value of fire department equipment \$2,000; total membership 45, volunteers; bell alarm. Chief engineer, F. B. Seager.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 175,000 gals; windmill pump; 2 hydrants; pipe 1,500 ft, 8 in dia; pressure 75 pounds; waterworks owned by village; cost to construct \$5,500. Pres of village, M. O. Black.

Carver, Carver Co., population 625; fire area 30 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand en-

gine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 350 ft, poor 300 ft, cotton good 50 ft; value of fire department equipment \$1,300; total membership 42, volunteers; bell alarm. Chief engineer, C. Bristol.

WATER SUPPLY—Source, cisterns; 5 cisterns cap 300 bbls each.

Chaska, Carver Co., population 2,500; mercantile buildings, brick and frame, 1 and 2 stories; private, brick and frame, 1 and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 800 ft, rubber good 1,200 ft, inferior 300 ft; 2 horses; value of fire department equipment \$5,000; value of buildings occupied \$2,500; total ann expenses of department \$800; total membership 90, 2 paid part time; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, John Hoehn.

WATER SUPPLY—Source, river and 10 cisterns. Engineer, H. Helmeke.

Chatfield, Fillmore Co., population 1,403; fire area 30 blocks; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$1,400; value of buildings occupied \$1,000; total membership 27, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, C. H. White.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 15,000 bbls; pumps cap 700 bbls per 10 hrs; 7 hydrants; 2,000 ft of pipe, 8 and 6 in dia; 35 taps; cost to construct \$10,000; expense \$125 a year. Supt, G. W. Craine.

Cloquet, Carlton Co., population 2,530; fire area 675 acres; mercantile buildings, brick and wood, 2½ stories; private, 1½ stories; shingle and tin roofs; fireworks ordinance. Fire department—4 stationary fire pumps, 2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 12 hose carriages, 15 small hose carts belonging to private corporations; hose, rubber good 2,350 ft, cotton good 4,400 ft, inferior 800 ft, linen good 1,500 ft, inferior 900 ft; value of equipment \$3,750; value of buildings occupied \$2,000; total ann expenses of department \$3,000; total membership 54, volunteers; steam whistle alarm. Chief, M. L. Sullivan. #

WATER SUPPLY—Source, springs; system, pumping to reservoir; pipe 2 miles, 3-4 and 2 in dia; waterworks owned by company; cost to construct \$2,500. Supt, A. M. Sheldon.

Cold Spring, Stearns Co., population 800; fire area 640 acres; buildings, wood, brick and stone, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$800; total membership 30, volunteers; bell alarm. Chief engineer, Daniel Friedman.

WATER SUPPLY—Source, river and wells. Village recorder, N. Wenner.

Crookston, Polk Co., population 5,000; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon, 150 ft extension ladder; hose, cotton good 1,000 ft, inferior 800 ft, rubber good 1,000 ft, inferior 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$5,000; total ann expenses of department \$1,200; total membership 40, volunteers; bell alarm; 4 fire companies. Chief engineer, Fred G. Rauch.

WATER SUPPLY—Source, Red Lake river; system, direct pumping; pumping engines and water power pump, dy cap 2,400,000 gals; 42 hydrants; pipe 7 miles, 8 to 4 in dia; 12 valves; pressure, domestic 60, fire 100 to 120 pounds; waterworks owned by company; cost to construct \$150,000; int. on bonds 7 per cent. Supt, Ed. Peterson.

Delano, Wright Co., population 1,200; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 3

chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 400 ft, rubber good 800 ft, inferior 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$4,500; total ann expenses of department \$200; total membership 70, volunteers; bell alarm. Chief engineer, Otis L. Billings.

WATER SUPPLY—Source, river; system, pumping to reservoir; reservoir cap 30,000 gals. (Works are contemplated.)

Bretton, Becker Co., population 1,500; fire area 1 mile sq; mercantile buildings, wood and brick, 2 stories; private, wood, 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; value of fire department equipment \$2,539; value of buildings occupied \$2,000; total ann expenses of department \$200; total membership 60, volunteers; bell and steam whistle alarm. Chief engineer, W. E. Reid.

WATER SUPPLY—Source, well; system, pumping to elevated tank; tank cap 57,000 gals; pumping engines, cap 500 gals per min; 18 hydrants; pipe 1 mile, 4 to 8 in dia; 5 valves; 10 taps; pressure, domestic 45, fire 45 to 120 pounds; waterworks owned by city; cost to construct \$14,018; cost to date \$17,000; ann expenses \$100. Supt, W. E. Reid.

Duluth, St. Louis Co., includes West Duluth and Lakeside, population 65,000; fire area 15 miles square; mercantile buildings, brick and stone, 3 to 12 stories; private, wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—3 steam fire engines, 7 chemical engines on wheels, 10 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 2 hose carriages, 6 hose wagons, 5 supply wagons, 6 hose sleighs, 6 chemical sleighs, 1 deluge set, 1 pomper apparatus; hose, cotton good 13,000 ft, inferior 1,100 ft, rubber good 600 ft, poor 100 ft; 45 horses, value \$10,125; value of fire department equipment and buildings \$200,000; total ann expenses of department \$131,000; total membership 98, paid full time; Gamewell alarm; 91 street boxes. Chief engineer, Edward Jackson.

WATER SUPPLY—Source, Lake Superior; system, pumping to reservoir, cap 4,000,000 gals; pumping engines, dy cap 10,000,000 gals; 310 hydrants; pipe 35 miles, 4 to 20 in dia; 400 valves; 516 meters; pressure 50 to 100 pounds; works owned by company; cost to construct \$1,330,030; ann expenses \$23,312. Supt, Wm. Craig.*

Fairmont, Martin Co., population 1,000; fire area 1 sq mile; mercantile buildings, wood and brick; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—100 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, good 1,000 ft; total membership 35. Chief engineer, M. E. Ashton.

WATER SUPPLY—Source, well; system, pumping to elevated tank; tank cap 2,000 bbls; pumping engines, cap 200 gals per min; 11 hydrants; pipe 1 mile, 12 to 8 in dia; 6 valves; pressure 40 pounds; waterworks owned by city; cost to construct \$9,000; cost to date \$10,000; ann expenses \$600. Supt, R. E. St. John.

Faribault, Rice Co., population 6,520; fire area 1 sq mile; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, brick and wood, 1½ and 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; siamese couplings used; hose, rubber good 1,500 ft, inferior 1,500 ft; value of fire department equipment \$11,000; value of buildings occupied \$15,000; total ann expenses of department \$11,000; total membership 100, paid; bell alarm. Chief engineer, Jas Kasper.*

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 73 hydrants; pipe 9 1-8 miles, 4 to 14 in dia; 36 valves; 174 taps; pressure 95 pounds; waterworks owned by city; cost to construct to date \$90,000; cost to city \$101,000; ann expenses \$2,900. Supt, A. C. Miller.

Farmington, Dakota Co., population 650; fire area 5 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not built in fire limits; fireworks ordinance. Fire de-

partment—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total ann expenses of department \$100; total membership 25, volunteers; bell alarm. Chief engineer, E. Z. Needham.

WATER SUPPLY—Source, wells.

Fergus Falls, Otter Tail Co., population 4,500; fire area 1,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 400 ft, rubber good 2,300 ft, inferior 500 ft; value of fire department equipment \$5,900; value of buildings occupied \$5,000; total ann expenses of department \$1,500; total membership 40, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, F. H. Barron.

WATER SUPPLY—Source, Red river of the North; system, direct pumping; pumping engines, dy cap 3,500,000 gals; 58 hydrants; pipe 10½ miles, 4 to 12 in dia; 35 valves; 400 taps; pressure, domestic 55, fire 100 pounds; waterworks owned by company; cost to construct \$147,000. Supt, E. N. Littlejohn.

Fort Snelling, Hennepin Co., population 700; fire area 150 acres; buildings, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft, inferior 800 ft, rubber good 400 ft; value of equipment \$2,000; expenses of department for past year \$500; telephone alarm. Chief officer, Col. E. C. Mason.

WATER SUPPLY—Source, spring; system, pump to tank and direct, cap of tank 30,000 gals; pumping engines, dy cap 884,000 gals; pipe 3 miles; 25 hydrants; 18 valves; pressure 35 to 80 pounds; cost to construct \$32,000. Supt, Frank H. Hall.*

Glencoe, McLeod Co., population 1,800; fire area 160 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, cotton good 1,400 ft; value of fire department equipment \$6,500; value of buildings occupied \$11,500; ann expenses \$400; total membership 55, paid part time 1, volunteers 54; bell alarm. Chief engineer, N. Hassan.

WATER SUPPLY—Source, 7 wells and cisterns; pumping to cisterns, cap 600 to 800 bbls each. (Work contemplated.)

Glennwood, Pope Co., population 900; fire area 160 acres; buildings, wood, 1½ stories; shingle and wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber inferior 300 ft, cotton good 950 ft; value of fire department equipment \$2,000; value of department buildings \$1,000; total ann expenses of department 48; total membership 25, volunteers; bell alarm. Foreman, J. J. Wallen.

WATER SUPPLY—Source, Spring creek; system, gravity; impounding reservoir, cap 150,000 gals; tank 20,000 gals; 8 hydrants; 1½ miles pipe, 6 to 4 in dia; 3 valves; 36 taps; pressure 72 pounds; waterworks owned by village; cost to construct \$8,000; cost to date \$10,000; ann expenses \$300. Supt, A. E. Olson.

Hallock, Kittson Co., population 950; fire area ¾ sq mile; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon, force pump, hand brake; hose, cotton good 1,600 ft, rubber good 200 ft; 2 horses, value \$400; value of fire department equipment \$4,500; value of buildings occupied \$1,900; total ann expenses of department \$240; total membership 18, volunteers; 1 engine company, 1 hook and ladder company; bell alarm. Chief engineer, E. A. Nelson.

WATER SUPPLY—Source, wells, cisterns and river.

Hastings, Dakota Co., population 4,500; fire area 300 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted in business section. Fire department—1 steam fire engine, 1 hook and lad-

der truck, 3 hose carriages, 1 hose wagon; hose, rubber good 2,300 ft, inferior 300 ft, linen good 2,500 ft; 6 horses, value \$700; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$50,000; total membership 25, paid part time; bell alarm. Chief engineer, Christ Otto.*

WATER SUPPLY—Source, Mississippi river and cisterns. Town clerk, Irving Todd, Jr.

Henderson, Sibley Co., population 1,000; fire area 300 acres; mercantile buildings, brick; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,125; value of buildings occupied \$1,500; total ann expenses of department \$50; total membership 48, volunteers; 3 fire companies; bell alarm. Chief engineer, August H. Snucke.

WATER SUPPLY—Source, wells and cisterns.*

Hokah, Houston Co., population 582; fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hand engines, 2 hook and ladder trucks, 100 pails; hose, cotton good 200 ft; value of fire department equipment \$300; value of buildings occupied \$3,000. Chief, H. L. Hohl.*

WATER SUPPLY—Source, wells. Town clerk, J. C. Shure.*

Hutchinson, McLeod Co., population 2,000; mercantile buildings, brick, 1 to 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 1,000 ft.

WATER SUPPLY—Source, artesian well; system, gravity; hydrants 3; pipe 2 blocks, 4 in dia. City clerk, L. A. Ritter.

Jackson, Jackson Co., population 1,500; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs not used on new store buildings; fireworks ordinance. Fire department—1 hand engine, 12 chemical extinguishers, 1 hose carriage, hooks, ladders and buckets; hose, rubber good 250 ft, inferior 100 ft, cotton 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$100; total membership 21, volunteers; bell alarm. Chief engineer, V. W. Avery.

WATER SUPPLY—Source, well and river; system, pumping to reservoir; reservoir cap 2,000 bbls; pumping engines, dy cap 750,000 gals; hydrants 10; pipe 3,870 ft, 6 in dia; 4 valves; 16 taps; pressure, domestic 60, fire 80 pounds; waterworks owned by city; cost to construct \$12,500; ann expenses \$1,200. Supt, A. F. Gerlach.

Janesville, Waseca Co., population 950; fire area 6 blocks; mercantile buildings, brick, 1 story; private, wood, 1 and 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 300 ft.*

WATER SUPPLY—Source, wells; system, pumping to windmill to 1,100 bbl tank; 3 hydrants; pipe ½ mile, 2½ in dia; 4 valves; quality of water hard; waterworks owned by village; cost to construct \$1,400. Pres, J. O. Chandler.

Kasson, Dodge Co., population 1,150; fire area 8 acres; buildings, brick and wood, 2 stories; fireworks ordinance. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 force pump on truck; hose, rubber good 50 ft; value of fire department equipment \$1,000; value of buildings \$1,800; total ann expenses of department \$100; total membership 16, volunteer; bell alarm. Foreman, A. A. Johnson.

WATER SUPPLY—Source, wells; system, Althouse & Wheeler windmill pumping to 40 bbl tank; works owned by village; cost to construct \$500. Town clerk, S. T. Littleton.*

Lake City, Wabasha Co., population 2,128; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; metal roofs used; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds, set of deluge nozzles; hose, cotton and linen good 2,500 ft; value of fire department equipment \$7,500; value of buildings occupied \$2,000; total ann expenses

of department \$200; total membership 51; bell alarm. Chief engineer, Geo. Cornelius.

WATER SUPPLY—Source, well and lake; system, pumping to reservoir and direct; reservoir cap 100,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 42; pipe 3 miles, 12 to 4 in dia; 20 valves; 70 taps; pressure, domestic 55, fire 125 pounds; waterworks owned by city; cost to construct \$25,000; ann expenses \$2,000. Supt, Geo. Cornelius.

Lakeside (see Duluth).

Lanesboro, Fillmore Co., population 1,100; fire area 40 acres; mercantile buildings, veneered brick; private, brick and wood, 2 stories; wooden roofs not permitted in business section. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 600 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 30, volunteers; bell alarm. Chief engineer, C. H. De Villiers.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 225,000 gals; windmill pump, dy cap 35,000 gals; 5 hydrants; pipe ¼ mile, 8 in dia; pressure 60 pounds; waterworks owned by village; cost to construct \$10,000; ann expenses \$500. Sec of com, O. M. Habberstad.

LeSueur, LeSueur Co., population about 2,000; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton inferior 500 ft, rubber good 250 ft; value of fire department equipment \$1,025; value of buildings occupied \$4,000; total ann expenses of department \$100; total membership 40, volunteers; bell and steam whistle alarm. Chief engineer, M. P. Curtiss; secy, M. W. Grimes.

WATER SUPPLY—Source, wells, cisterns and tank; tank cap 30,000 gals.

Litchfield, Meeker Co., population 2,300; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 12 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 900 ft, inferior 600 ft; value of fire department equipment \$10,000; value of buildings occupied \$4,000; total ann expenses of department \$300; total membership 65, volunteers; bell and whistle alarm. Chief engineer, M. E. Baum.

WATER SUPPLY—Source, driven wells; system, pumping direct to tank; cap 37,000 gals; pumping engines, cap 750 gals per minute; hydrants 21; pipe 2½ miles, 4, 6 and 8 in dia; 6 valves; 65 taps; pressure, domestic 40, fire 80 to 100 pounds; waterworks owned by city; cost to construct \$20,000; ann expenses \$1,200. Supt, L. Miller.

Little Falls, Morrison Co., population 5,000; fire area 18 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 3,000 ft, cotton good 2,000 ft; value of fire department equipment \$7,500; value of buildings occupied \$13,600; total ann expenses of department \$750; total membership 90, paid full time 1; electric alarm; 7 street boxes; 5 fire companies, 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, C. N. Lafont.

WATER SUPPLY—Source, Mississippi river; system, pumping to standpipe and direct; standpipe cap 250,000 gals; pumping engine, dy cap 1,000,000 gals; hydrants 78; pipe 7 miles, 8 and 6 in dia; 25 valves; taps 100; pressure, domestic 40, fire 100 to 125 pounds; waterworks owned by company; original cost to construct \$60,000; expenses of construction to date \$125,000; ann expenses \$4,000; int on bonds 5 per cent. Supt, Russell Baker.

Luverne, Rock Co., population 2,500; fire area 2 miles sq; buildings, stone and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages; hose, cotton good 1,200 ft, rubber 1,200 ft; value of fire department equipment \$4,000; value of buildings

\$3,000; ann expenses \$300; membership 70, volunteers; bell alarm. Chief, Sam Chapin.

WATER SUPPLY—Source, drive wells (28); system, pumping to standpipe; cap 118,295 gals; pumping engines, cap 1,500,000 gals; hydrants about 100, pipe 8 miles, 4 to 10 in dia; valves 14, pressure 60, fire 120 pounds; works owned by city; cost to construct \$22,000. Supt, Geo. W. Wiggins.

Madison, Lac qui Parle Co., population 625; fire area 180 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 2 force pumps with 400 ft hose; hose, cotton good 1,000 ft; value of fire department equipment \$5,500; value of buildings occupied \$1,000; total membership 23, volunteers; bell alarm. Chief, Frank F. Davis.

WATER SUPPLY—2 cisterns, cap 1,700 bbls each.

Mankato, Blue Earth Co., population 12,000; fire area 30 blocks; buildings, brick and 1 wood, 1½ and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 4 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, 1 hose cart; 1 hose wagon; alarmes couplings; hose, cotton good 2,500 ft, rubber good 1,000 ft; value of fire department equipment \$4,000, total ann expenses of department \$750; value of buildings occupied \$2,000; total membership 108, volunteers; electric alarm. Chief engineer, Geo. M. Phillips.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; cap 870,000 gals; pumping engines, dy cap 3,000,000 gals; 94 hydrants; pipe 49,918 ft, 4 to 16 in dia; 42 valves; 700 taps; pressure 52 to 98 pounds; Edison pressure recording gauge; works owned by city; cost to construct \$87,000; ann expenses \$5,829. Supt, J. B. Swan.

Mapleton, Blue Earth Co., population 700; fire area 40 acres; mercantile buildings, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 150 ft, poor 150 ft, cotton good 200 ft, poor 200 ft; value of fire department equipment \$1,500; value of buildings occupied \$200; total expenses \$25; total membership 35. Chief engineer, Chas. E. Ware.

WATER SUPPLY—Source, well 170 ft deep; system, pumping to tank, cap 80,000 gals; pipe 2 miles, 4 to 6 in dia; 10 hydrants; pipe 2 miles, 6 to 8 in; 60 taps and 8 valves; pressure 30 pounds; works owned by city; cost to construct \$15,000; ann expenses \$50. Mayor, C. G. Spaulding.

Marshall, Lyon Co., population 1,500; fire area 6 blocks, 20 yds sq; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,050 ft, inferior 850 ft; value of fire department equipment \$3,706; value of buildings occupied \$3,500; total ann expenses of department \$200; total membership 35, volunteers; bell alarm. Chief engineer, F. M. Healy.

WATER SUPPLY—Source, Redwood river and cisterns.*

Minneapolis, Hennepin Co., population 208,000; fire area 9 sq miles; mercantile buildings, brick and stone, 2 to 12 stories; private, brick and wood, 1 to 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—20 steam fire engines, 9 chemical engines on wheels, 34 chemical extinguishers, 4 hook and ladder trucks, 2 aerial trucks, 14 hose carriages, all kinds, 8 hose wagons, other apparatus, 5 fuel wagons and 1 water tower; hose, rubber good 7,000 ft, inferior 18,550 ft, cotton good 15,000 ft; 168 horses, value \$37,500; value of fire department equipment \$205,000; value of buildings occupied \$614,990; total ann expenses of department \$331,832.52; total membership 279, paid full time; Gamewell alarm; 262 street boxes. Chief engineer, A. H. Runge.

WATER SUPPLY—Source, Mississippi river; system, pumping direct; pumping engines, dy, cap 73,000,000 gal; 2,475 hydrants; pipe 206 miles 6 to 36 in dia; 1,630 valves; 10,500 taps; pressure domestic 75 pounds, fire same; waterworks owned by city; original cost to construct \$2,500,000; expenses of construction to date \$2,904,000; ann ex-

penses \$92,707. Supt, A. Bergstrom; water registrar, F. T. Moody.

Montevideo, Chippewa Co., population 2,000; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 900 ft; value of fire department equipment \$1,500; value of buildings occupied \$400; total ann expenses of department \$300; total membership 40, volunteer members; bell alarm. Chief engineer, Wm. Dimbrack.

WATER SUPPLY—Source, river and well; system, pumping to tank, cap 3,000 bbls; pumping engines, dy cap 600 bbls; 19 hydrants; pipe 1 mile, 4, 8 and 8 in dia; 4 valves; pressure, domestic 40, fire 40 to 90 pounds; waterworks owned by city; original cost to construct \$20,000; ann expenses \$1,000. Jerry Holdeman.

Montgomery, Lenoir Co., population 1,086; fire area 160 acres, buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 300 ft, cotton good 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$350; total membership 25, volunteers; 3 fire companies. Chief engineer, J. R. Stratton.

WATER SUPPLY—Source, well; system, pumping to standpipe; cap 1,200 to 1,500 gals; pumping engines, cap 30 gals per min; 11 hydrants; pipe 1 mile, 6 to 8 in dia; 2 valves; 23 taps; quality of water good; pressure 40 to 60 pounds; waterworks owned by city; cost to construct \$54,000. Pres, W. A. Kennedy.

Moorehead, Clay Co., population 3,500; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton inferior 1,000 ft, rubber good 1,500 ft, inferior 500 ft; value of fire department equipment \$5,500; value of buildings occupied \$1,500; total ann expenses of department \$100; total membership 40, volunteers; steam whistle alarm; 2 fire companies. Chief engineer, A. J. Wright.

WATER SUPPLY—Source, river; system, direct; pumping engines, 45 hydrants; pipe 4 miles, 4 to 10 in dia; 9 valves; pressure, domestic 30, fire 100 pounds; cost to construct \$35,000; ann expenses \$40,000. Chairman, L. M. Anderson.*

Morris, Stevens Co., population 1,600; fire area 100 acres; mercantile buildings, wood, 2 stories; private, wood, 1 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$4,700; of buildings occupied \$800; total membership 15, paid full time; bell alarm; 1 fire company. Chief engineer, W. W. Nolting.

WATER SUPPLY—Source, well and lake; 8 tanks; also cisterns of 1,500 barrels cap each. Supt, P. A. McCarty.*

New Prague, Scott Co., population 1,200; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft, cotton good 600 ft; value of department apparatus \$2,500; value of buildings occupied \$4,000; ann expenses \$250; total membership 88; bell alarm. Chief, Michael Schreiner.

WATER SUPPLY—Source, wells and cisterns; cap 275 bbls. Village clerk, Frank Mokiska.

New Ulm, Brown Co., population 4,000; fire area 4,710 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1½ and 2 stories; wooden roofs not permitted inside of fire limits; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, 1 supply wagon; hose, rubber good 2,000 ft; value of fire department equipment \$7,500; value of buildings occupied \$1,500; total ann expenses of department \$700; total membership 60, volunteers; 1 engine company, 1 hook and ladder company, 4 hose companies. Chief engineer, Chas. Brust.

WATER SUPPLY—Source, wells; system, pumping to reservoir, then to standpipe; reservoir cap 117,350 gals; standpipe cap 25,600 gals; pumping en-

gines, dy cap 1,000,000 gals; 38 hydrants; pipe 4 miles, 4 to 10 in dia; 20 valves; 125 taps; pressure for fire purposes 100 to 120 pounds; waterworks owned by city; cost to construct \$38,000; ann expenses \$1,800. Supt. Chas. Stoll.

Northfield, Rice Co., population 3,500; fire area 2,500 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; force pump at mill in center of city; hose, cotton good 1,000 ft, inferior 1,000 ft, rubber good 2,000 ft, inferior 800 ft; value of fire department equipment \$5,000; value of buildings occupied \$8,000; total ann expenses of department \$800; total membership 50, volunteers, paid part time 1; bell alarm; 4 fire companies. Chief engineer, Wm. Murphy.

WATER SUPPLY—Source, river, 4 cisterns; system, pumping to standpipe; pump; 2 hydrants; pressure 160 pounds; works owned by city. Mayor, A. W. Norton; city clerk, H. W. McChesney.

North St. Paul, Ramsey Co., population 1,009 fire area 150 acres; mercantile buildings, brick 2 to 5 stories; private, wood, 1½ stories; roofs iron and gravel; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose cotton good 900 ft, rubber good 600 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total membership 34, paid part time; electric alarm; 4 fire companies. Chief engineer, John M. Hjermstad.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir; reservoir cap 80,000 gals; pumping engines, dy cap 1,100,000 gals; 20 hydrants; pipe 4 miles, 6 to 10 in dia; 12 valves; pressure, domestic 40, fire 135 pounds; waterworks owned by company; cost to construct \$25,000; ann expenses \$800. Supt. G. L. Parkhill.

Osakis, Douglas Co., population 700; fire area 4 sq miles; buildings, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage, 2 sets extension ladders and 2 hand pumps; hose, cotton good 1,200 ft, rubber inferior 200 ft, linen good 200 ft; value of fire department equipment \$2,500; value of buildings occupied \$350; membership 30, volunteers; bell and steam whistle alarm. Chief engineer, O. J. Lee.

WATER SUPPLY—Source, lake and cistern; 600 barrel cistern.

Owatonna, Steele Co., population 4,500; fire area 35 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 chemical engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,600 ft; value of fire department equipment \$5,300; value of buildings occupied \$1,000; total ann expenses of department \$1,000; total membership 48, volunteers; bell alarm; 5 fire companies. Chief engineer, Fred G. Schuman.

WATER SUPPLY—Source, drilled well 650 ft; system, pumping to standpipe and direct; standpipe cap 132,120 gals; pump, dy cap 1,000,000 gals; 44 hydrants; pipe 5 1-4 miles, 4 to 10 in dia; 28 valves; 150 taps; pressure, domestic 85, fire 100 pounds; works owned by city; cost to construct \$30,000, to date \$35,000; ann expenses \$1,850. Pres. S. F. Hommel; secy. C. J. O'Brien.

Paynesville, Stevens Co., population 597; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage, hooks, ladders and palls; hose, cotton good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$100; total ann expenses of department \$50; total membership 20, volunteers. Chief engineer, Fred Harper.

WATER SUPPLY—Source, river and cisterns. Town clerk, A. G. Bugbie.

Pipestone, Pipestone Co., population 2,000; fire area 640 acres; mercantile buildings, stone and wood, 2 and 3 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, cotton good 1,000 ft; value of fire department equipment \$3,100; value of building occupied \$1,000; total ann expenses of depart-

ment \$633; total membership 60, volunteer; bell alarm. Chief engineer, F. B. Hobough.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 90,000 gals; 10 hydrants; pipe 2 miles, 8 and 4 in dia; pressure 40 pounds; cost to construct \$20,000; ann expenses \$500. Supt. Frank Raymond.*

Preston, Fillmore Co., population 1,600; fire area 160 acres; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 450 ft, poor 50 ft, cotton good 400 ft; value of fire department equipment \$2,300; value of buildings occupied \$1,500; total ann expenses of department about \$500; total membership 38, paid part time 37, paid full time 1; bell alarm. Chief engineer, H. Christansson.

WATER SUPPLY—Source, river, wells and cisterns; system, gravity and pumping to 2 cisterns; cap 500 bbls each; cost to construct \$1,000; works owned by city. Supt. Geo. Renner.

Red Wing, Goodhue Co., population 8,000; mercantile buildings, brick and stone, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 chemical engine, 12 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, rubber and cotton 6,500 ft, inferior 1,500; 2 horses, value \$500; value of fire department equipment \$30,000; value of building occupied \$30,000; total ann expenses of department \$4,163; total membership 64, paid full time 4, paid part time 61; Gamewell alarm; 17 street boxes; 1 chemical company, 1 hook and ladder company, 4 hose companies. Chief engineer, J. H. Webster.

WATER SUPPLY—Source, river; system, pumping to reservoir; cap of reservoir 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 72 hydrants; pipe 8 miles, 4 to 14 in dia; 50 valves; pressure 100 pounds; waterworks owned by city; cost to construct to date \$100,000; ann expenses \$4,000. Supt. W. I. Miller.

Redwood Falls, Redwood Co., population 1,800; buildings, brick and wood, 1 and 2 stories. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$2,200; total membership 38, volunteers; bell alarm. Chief engineer, H. W. Buchner.*

WATER SUPPLY—Source, springs and Redwood river; system, gravity and pumping to elevated tank, cap 90,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 33; pipe 3 miles; cost to construct \$25,000. Town clerk, Edward Everett.*

Rochester, Olmstead Co., population 7,000; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hook and ladder trucks, 5 hose carriages; hose, cotton good 2,500 ft, inferior 1,500 ft, rubber inferior 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,500; ann expenses \$8,000; total membership 58, paid part time 34, volunteers 24; bell alarm. Chief engineer, John A. Wagoner.

WATER SUPPLY—Source, wells and creek; system, pumping to standpipe; standpipe cap 255,000 gals; pumping engines, dy cap 2,000,000 gals; 139 hydrants; pipe 9 miles, 4 to 14 in dia; 57 valves; pressure, domestic 70, fire 150 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses est \$3,700. Supt. R. H. Mills.

Rosemount, Dakota Co., population 589; fire area 25 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 300 ft; value of fire department equipment \$1,300; value of buildings occupied \$800; total membership 12, volunteers. Foreman, Peter Heinen.

WATER SUPPLY—Source, wells; system, pumping to tanks; 4 tanks, cap 2,000 bbls each; works owned by town; cost to construct \$2,500. Supt. L. P. Warweg.

Rushford, Fillmore Co., population 1,000; fire area 360 acres; buildings, stone, brick and wood, 1½ to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 75 leather buckets; total ann expenses of department \$40; value of equipment \$400; total

membership 27, volunteers; bell alarm. Foreman, Ed. Hallahan.

WATER SUPPLY—Source, driven wells and creek.

St. Charles, Winona Co., population about 1,400; fire area 300 acres; buildings, brick and wood, 1 to 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 500 ft, cotton good 200 ft; value of fire department equipment \$2,000; value of buildings \$200; total membership 38, volunteers; bell and whistle alarm. Chief engineer, J. B. Zechee.

WATER SUPPLY—Source not stated; 1 tank, cap 1,000 bbls; 11 hydrants; pipe 1½ miles. Village recorder, Thos. P. Dixon. (Works to cost \$12,000 contemplated.)

St. Cloud, Stearns Co., population 7,686; fire area 8 sq miles; mercantile buildings, brick and stone, 2 to 4 stories; private, wood, stone and brick, 1½ and 2 stories. Fire department—2 chemical extinguishers, 1 supply wagon, 4 hand hose carts, (not in use); hose, rubber good 3,150 ft, inferior 800 ft; 2 hoseas, value \$500; value of fire department equipment \$5,500; total ann expenses of department \$12,000; total membership 15, paid full time 2; Gamewell electric alarm; 16 street boxes; 3 hose companies, 1 hook and ladder company. Chief engineer, Wm. Albrecht.

WATER SUPPLY—Source, Mississippi river; system, pumping to standpipe and direct; standpipe cap 350,000 gals; pumping engines, dy cap 3,000, 000 gals; 134 hydrants; pipe 13 miles, 4 to 12 in dia; 33 gates; 287 taps; pressure, 60 to 150 pounds; waterworks owned by company; cost to construct \$125,000; to date \$160,000; ann expenses \$6,000. Pres of com, C. S. Benson.

St. Paul, Ramsey Co., population 150,000; fire area 36,000 acres; mercantile buildings, stone, brick and terra cotta, average 4 stories; private, stone, brick, terra cotta and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—13 steam fire engines, 8 chemical engines on wheels, 2 chemical extinguishers, 8 hook and ladder trucks, 2 aerial trucks, 15 hose carriages, all kinds, water tower; hose, cotton good 15,050 ft, rubber good 19,150 ft, linen good 300 ft; 117 horses, value \$28,325; value of fire department equipment \$203,856.90; value of buildings occupied \$188,800; total ann expenses of department \$215,000; total membership 199, paid full time; Gamewell alarm; 167 street boxes. Chief engineer, John Jackson.

WATER SUPPLY—Source, chain of lakes and wells from 7 to 15 miles from city; system, business portion gravity, balance pumping to reservoir, cap 16,000,000 gals; pumping engines, dy cap 12,000,000 gals; 2,067 hydrants; pipe 221 miles, 4 to 36 in dia; 1,901 valves; 13,039 taps; quality of water best; pressure 8 to 100 pounds; waterworks owned by city; cost to construct to date \$3,407,991.59; ann expenses \$36,404.84. Supt, J. B. Overton; secy, John Canfield.

St. Peter, Nicolette Co., population 3,900; mercantile buildings, wood, stone and brick, 2 and 3 stories; private, wood, brick and stone, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,000 ft, cotton good 500 ft, inferior 200 ft; value of fire department equipment \$3,600; value of buildings occupied \$5,000; total ann expenses of department \$700; total membership 33, volunteers; bell alarm. Chief engineer, George Stelzer.

WATER SUPPLY—Source, well; system, pumping to standpipe; standpipe, cap 140,000 gals; pumping engines, dy cap 1,750,000 gals; 35 hydrants; pipe 3 1-4 miles, 4 to 12 in dia; 24 valves; 3 meters; pressure 40 pounds; waterworks owned by city; cost to construct \$40,000; ann expenses \$900. Chairman, F. L. Gault.*

Sandstone, Pine Co., population 517; no organized fire department.*

WATER SUPPLY—Source, springs; system, pump to reservoir, cap 2,000,000 gals; pipe 3 miles, 3 in dia; 7 hydrants; cost to construct \$15,000. Pres, W. H. Grant; supt, Wm. Jesemer.*

Sauk Centre, Stearns Co., population 2,000; fire area 1½ miles; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,000; total membership 50, volunteers; electric alarm. Chief engineer, L. E. Coe.

WATER SUPPLY—Source, Sauk lake; system, direct pumping; pumps, dy cap 1,500,000 gals; 16 hydrants; pipe 1 3-8 miles, 6 and 8 in dia; 9 valves; 1 meter; pressure 50 to 100 pounds; 85 taps; works owned by city; cost to construct \$14,000; ann expenses \$1,300; int on bonds 6 per cent. Supt, L. E. Coe.

Shakopee, Scott Co., population 2,200; fire area 15 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hand chemicals, 2 hose carriages; hose, cotton good 700 ft, rubber good 1,300 ft; value of fire department equipment \$3,000; value of buildings occupied \$4,000; total ann expenses of department \$200; total membership 90, volunteers; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, E. J. Gellenbeck.

WATER SUPPLY—Source, for domestic purposes, wells and springs; for fire protection, cisterns.

Sleepy Eye, Brown Co., population 1,700; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs are permitted except in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total ann expenses of department \$225; total membership 30; volunteers; electric bell alarm. Chief engineer, A. A. Lanabee.

South St. Paul, Dakota Co., population 2,242; fire area 6 acres; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—3 steam fire engines, 3 hose carriages; hose, cotton good 2,000 ft, rubber good 1,000 ft; value of fire department equipment \$9,000; value of buildings occupied \$4,500; ann expenses \$4,068.70; total membership 60, paid part time 3. Chief engineer, F. J. Watrous.*

WATER SUPPLY—Source, wells and spring. A \$70,000 plant will be constructed at an early date.*

Springfield, Brown Co., population 1,000; fire area 20 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 850 ft; hose from railroad tank forced by roundhouse engine; value of fire department equipment \$1,500; value of buildings occupied \$500; total ann expenses of department \$150; total membership 25, paid part time; bell alarm. Chief engineer, Chas. Olson.

WATER SUPPLY—Source, wells and 3 large cisterns and Cottonwood river.

Spring Valley, Fillmore Co., population 1,992; fire area 1½ miles; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 500 ft, rubber good 800 ft; value of fire department equipment \$1,800; value of buildings occupied \$4,000; total ann expenses of department \$300; total membership 45, volunteers; 6 electric bell alarms. Chief engineer, C. F. Keenan.

WATER SUPPLY—Source, large well; system, pumping direct; pumping engines, dy cap 100,000 gals; hydrants 24; pipe 3 miles, 12 to 6 in dia; 24 valves; 20 taps; pressure, domestic 45, fire 125 pounds; waterworks owned by city; cost to construct \$12,000; ann expenses \$1,500. Chairman of com, Ben Holmes. (In addition to above, source, creek; 4 cisterns 1 tank; cap of cisterns 400 bbls each; cost \$250 each.)

Stillwater, Washington Co., population 12,000; mercantile buildings, brick and stone, 2 stories; private, wood, 1½ stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 patrol; hose, rubber good 500 ft, cotton good 2,200 ft; 6 hoseas, value \$200; value of fire department equipment \$10,000; value of buildings occupied \$12,500; total ann expenses of department \$7,000; total membership 30, paid full time 5, volunteers; 15 electric alarm; 25 street boxes. Chief engineer, F. E. Joy.

WATER SUPPLY—Source, McKusick lake and springs; system, gravity and pumping to tanks;

cap of tanks 100,000 gals each; 2 pumping engines, dy cap 3,000,000 gals; 120 hydrants; pipe 10 $\frac{1}{2}$ miles, 4 to 16 in dia; 21 valves; pressure, domestic 60, fire 50 to 100 pounds; waterworks owned by company; cost to construct \$200,000; ann expenses \$4,000. Pres of com, E. W. Durant; H. H. Harrison, secy & mgr.

Taylor's Falls, Chicago Co., population 567; fire area 50 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck; value of fire department equipment \$60; 1 hook and ladder company. Captain, C. E. Peaslee.*

WATER SUPPLY—Source, river. Village clerk, L. W. Marston.*

Tracy, Lyon Co., population 2,280; fire area 640 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 700 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; 35 volunteer members; whistle alarm. Chief, J. J. Hennessy.

WATER SUPPLY—Source, well; system, pumping to tank, cap 45,000 gals; pumps, dy cap 1,000,000 gals; 20 hydrants; pipe 2 miles, 8, 6 and 4 in dia; quality of water good; pressure, domestic 40, fire 100 pounds; works owned by city; cost to construct \$33,000; ann expenses \$2,000. Supt, Chas. Laurth.

Two Harbors, Lake Co., population 1,200; fire area 160 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, cotton good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,200; total membership 20, volunteers; bell alarm. Chief engineer, M. McKacheron.

WATER SUPPLY—Source, Lake Superior; system, pumping to tank and direct; tank cap 105,000 gals; pumping engines, dy cap 1,000,000 gals; 11 hydrants; pipe 1 3-4 miles; pressure, domestic 50, fire 150 pounds; works owned by city; cost to construct \$20,000; cost to date \$22,000. Supt, John Duas.

Wabasha, Wabasha Co., population 2,600; fire area 10 acres; buildings, brick, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$8,000; value of buildings occupied \$500; total ann expenses of fire department \$150; membership 40, volunteers; whistle alarm; 1 engine company, 2 hose companies, 1 hook and ladder company. Chief, Theo. J. Toben.

WATER SUPPLY—Source, Mississippi river; system, direct pumping; pumping engines, dy cap 630,000 gals; works owned by Wabasha Roller Mill Co.; cost to construct \$6,000; ann expenses \$200. Town clerk, R. E. Stearns.*

Waconia, Carver Co., population 1,206; fire area 30 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total membership 40, volunteers; bell alarm; 3 fire companies. Chief, H. Osterfeld.

WATER SUPPLY—Source, 4 large cisterns.

Warren, Marshall Co., population 1,000; fire area 160 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 9 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,800 ft, inferior 1,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$250; total membership 30, volunteers; bell alarm. Chief, D. Main.

WATER SUPPLY—Source, deep wells and river; system, pumping to reservoir, cap 1,000 bbls.*

Waseca, Waseca Co., population 2,482; buildings, wood and brick. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,250 ft; value of fire depart-

ment equipment \$1,500; total membership 86, volunteers; bell and whistle alarm. Chief, Ralph Garland.

WATER SUPPLY—Source, lake and cisterns. (Works to cost \$30,000 will be put in this year.) Mayor D. S. Cummings.

Watertown, Carver Co., population 400; fire area 40 acres; buildings, wood, 1 and 2 stories. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 250 ft, cotton good 500 ft, inferior 150 ft; value of fire department equipment \$3,000; total ann expenses of department \$1,500; total membership 36, volunteers; bell and whistle alarm. Chief engineer, F. H. Japa.

WATER SUPPLY—Source, river; system, pumping direct; pumping engines; 4 hydrants; pipe 3-4 miles, 4 in dia; pressure 150 lbs; works owned by village; cost \$2,800; ann expenses \$100. Mayor, F. A. Barth.

Waterville, LeSueur Co., population 1,800; fire area 1,200 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, inferior 100 ft, cotton good 150 ft; value of fire department equipment \$850; value of buildings occupied \$150; 45 volunteer members; bell alarm. Chief engineer, J. J. Morlein.

WATER SUPPLY—Source, wells, river and lake; works are contemplated.

Wells, Faribault Co., population 1,208; fire area $\frac{1}{2}$ mile sq; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,200; total ann expenses of department \$500; total membership 25, paid part time 30; bell alarm. Chief engineer, E. Hayes.*

WATER SUPPLY—Source, 2 artesian wells; 4 tanks, cap 500 bbls each; fire engine pumps directly from wells into hose. Mayor, Dan Straw.*

West Duluth, St. Louis Co. Fire department see Duluth.

WATER SUPPLY—Source, Duluth Water Co.; 224 hydrants; pipe 13 $\frac{1}{2}$ miles, 16 to 6 in 59 valves; 19 meters; 350 taps; pressure 70 to 100 pounds; waterworks owned by company; cost to construct \$175,000; ann expenses \$7,000. Supt, M. Jacoby.

West St. Paul, Ramsey Co. (See St. Paul.)

White Bear Lake, Ramsey Co., population 1,500; fire area 160 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 500 ft, rubber good 1,000 ft. Chief engineer, Chas. Reef.

Willmar, Kandiyohi Co., population 3,000; fire area $\frac{1}{2}$ by 1 mile; buildings, brick and wood, 1 and 2 stories; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$4,500; value of buildings occupied \$1,000; total ann expenses of department \$350; total membership 64, volunteers; bell and whistle alarm. Chief engineer, A. J. E. Rander.

WATER SUPPLY—Source, wells; system, pumping to tank, cap 65,000 gals; pumping engines, dy cap 1,000,000 gals; 33 hydrants; 12 valves; pipe 3 $\frac{1}{2}$ miles, 8 to 4 in dia; 120 taps; pressure, domestic 45, fire 125 pounds; cost to construct \$30,000; cost to date \$23,000; ann expenses \$600. Supt, O. L. Lien.

Winnepago, Faribault Co., population 1,500; fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 500 ft, poor 50 ft, linen, rubber lined good 300 ft; value of department apparatus \$1,000; value of buildings occupied \$200; membership 25, volunteers; bell and whistle alarm. Chief engineer, C. H. Essler.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 1,100,000 gals; pumping engines, dy cap 500,000 gals; hydrants 17; pipe 2 miles, 8, 6 and 4 in dia; 4 valves; pressure, domestic 30, fire 125 pounds; works owned by city; cost to construct \$15,000; ann expenses \$1,000. Supt, Seth Y. Conklin.*

Winona, Winona Co., population 20,000; fire area 2,000 acres; mercantile buildings, brick, iron and wood, 2 to 5 stories; private, brick and wood, 1 to 3 stories; wooden roofs not permitted; fire-works ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 5 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 4 hose wagons, 1 supply wagon, 4 hose carts in reserve with 600 ft each hose; hose, cotton good 5,500 ft, inferior 1,000 ft, rubber good 1,600 ft, poor 700 ft; 13 horses, value \$2,200; value of fire department equipment \$65,000; value of buildings occupied \$24,000; total ann expenses of department \$27,237; total membership 30, paid full time; Gamewell alarm; 43 street boxes. Chief, P. R. Fennell.

WATER SUPPLY—Source, 2 wells, near the Mississippi river; system, pumping to standpipe; standpipe cap 20,000 gals; pumping engines, dy cap 11,000,000 gals; 287 hydrants; pipe 35 miles, 6 to 30 in dia; 170 valves; 2,000 taps; pressure, domestic 60, fire 80 pounds; works owned by city; cost to construct to date \$400,000; ann expenses \$9,000. Supt, M. T. Walz.

Worthington, Nobles Co., population 2,150; fire area 320 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not

permitted in business limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 6 chemical extinguishers; hose, cotton good 1,000 ft; value of fire department equipment \$1,400; value of buildings occupied \$300; total membership 45, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, H. C. Crawford.

WATER SUPPLY—Source, wells; system pump to reservoir, cap 67,000 gals; pumping engines, dy cap 750,000 gals; 20 hydrants; pipe 5 miles, 4 to 10 in dia; 15 valves; 150 taps; pressure 45 pounds; works owned by city; cost to construct to date \$31,000; ann expenses \$2,500. Supt, H. B. Tibbetts.

Zumbrota, Goodhue Co., population 1,000; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,600 ft; value of fire department equipment \$1,000; value of buildings occupied \$6,000; ann expenses \$400; total membership 60, volunteer; 2 hose companies, 1 hook and ladder company; bell alarm. Chief engineer, J. M. Watta.*

WATER SUPPLY—Source, river; system, direct pumping; 4 hydrants; pipe $\frac{3}{4}$ mile, 4 to 6 in dia; 5 valves; pressure 140 pounds; works owned by city; cost to construct \$6,000; ann expenses \$250. Supt, M. Watta.

Places having a population of 1,000 and upward that have no fire protection: Crystal, Hennepen Co., population 1,014; Tower City, St. Louis Co., population 1,110.

MISSISSIPPI.

Aberdeen, Monroe Co., population 3,449; fire area 200 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, 4 chemical couplings used; hose, rubber good 1,500 ft; 2 horses; value of fire department equipment \$7,000; value of buildings occupied \$1,500; total ann expenses of department \$350; total membership 120, volunteers; bell alarm.

WATER SUPPLY—Source, 12 artesian wells, 4 reservoirs, cap 16,000 gals each. Mayor, J. W. Maynard.

Bay St. Louis, Hancock Co., population 2,300; buildings, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck; hose, cotton good 450 ft; value of fire department equipment \$1,200; value of buildings occupied \$2,000; total ann expenses \$125; total membership 40, volunteers; bell alarm. Chief engineer, Richard Attowag.

WATER SUPPLY—Source, 4 artesian wells and cisterns; system, gravity; dy cap 135 gals per minute; hydrants 25; pipe 3 miles, 3, 2 and 2 in dia; pressure 8 to 20 pounds; works owned privately; cost to construct \$5,000. Supt, Chas San-ger.

Biloxi, Harrison Co., population 4,000; fire area 4 sq miles; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, buckets; hose, cotton good 1,000 ft, rubber good 750 ft, inferior 300 ft; value of fire department equipment \$8,000; value of buildings occupied \$2,000; total membership 150, volunteers; bell alarm. Chief engineer, Phil McCabe.

WATER SUPPLY—Source, artesian wells; system; gravity; cap of reservoir and 2 elevated cisterns 60,000 gals cap; pipe $\frac{6}{8}$ miles, 4 in dia; 42 hydrants; 30 valves; pressure 20 pounds; works owned by company; cost to construct \$8,000; ann expenses \$500. Pres and supt, John Walker.

Brookhaven, Lincoln Co., population 2,142; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; causes of fire investigated. Fire department—1 hand engine, 6 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 700 ft; value of fire department equipment \$2,500; total ann expenses of department \$150; total membership 150; bell alarm. B. Banks.

WATER SUPPLY—Source, 7 cisterns supplied

from roofs of houses. Town clerk, B. T. Atkins.

Canton, Madison Co., population 2,131; fire area 640 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,500 ft, inferior 400 ft; 2 horses, hired; value of fire department equipment \$6,000; value of 2 buildings owned \$600, 1 rented at \$20 per year; total ann expenses of department \$2,000; total membership 125, volunteers; bell alarm. Chief engineer, F. A. Teasdale.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe, cap 152,000 gals; 16 x 100 gals; pumping engines, dy cap of 1,000,000 each; 60 hydrants; pipe $\frac{5}{8}$ miles, 10 to 4 in dia; 28 valves (works not yet completed). Mayor, A. P. Hill; city clerk, J. W. Latimer.

Clarksdale, Coahoma Co., population 1,500; buildings, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hose reel, 100 ft hose, ladders and buckets. W. D. Cutler, fire com.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe and direct; pressure 40 to 120 pounds; works owned by company; estimated cost \$40,000. City clerk, M. H. Daily.

Columbus, Lowndes Co., population 5,000; fire area 240 acres; mercantile buildings, brick, 2 to 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 6 hose carriages, all kinds, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 2,000 ft; 6 horses, value \$850; value of fire department equipment \$30,000; value of buildings occupied \$5,000; total ann expenses of department \$1,500; total membership 200, volunteer members; bell alarm. Chief engineer, B. A. Weaver.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir; reservoir cap 50,000 gals; pumping engines, dy cap 700,000 gals; hydrants 30; pipe 6 miles, 6 to 4 in dia; 16 valves; pressure, domestic 25, fire 40 pounds; works owned by city; cost to construct \$50,000, to date \$100,000; ann expenses \$2,000. Supt, John Connolly.

Corinth, Alcorn Co., population 2,111; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, wells and cisterns.

Crystal Springs, Copiah Co., population 1,200; fire area 10 acres; buildings, wood and brick, 1 story; wooden roofs permitted. Fire department—4 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$1,000; total membership 12, volunteers; bell alarm. Chief engineer, C. Appel.

WATER SUPPLY—Source, public wells and cisterna. Town clerk, I. M. Eagan.

Buck Hill, Montgomery Co., population 332; mercantile buildings, wood, 1 and 1½ stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, artesian wells.

Durant, Holmes Co., population 1,259; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. No fire department.

WATER SUPPLY—Source, surface water. City engineer, I. Scitales.

Enterprise, Clark Co., population about 2,000; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department not reported.

WATER SUPPLY—Source, wells and cisterna.

Greenville, Washington Co., population 6,558; fire area 2,000 acres; mercantile buildings, brick, 1, 2 and 3 stories; private, wood, 1 and 2 stories. Fire department—2 steam fire engines, 2 hand engines, 1 hook and ladder truck, 8 hose carriages, slamese couplings used; hose, rubber good 1,500 ft, inferior 400 ft; 3 horses; value of fire department equipment \$10,000; total ann expenses of department \$4,000; total membership 50, paid 5; electric alarm; 6 boxes. Chief, Wm. Cross.

WATER SUPPLY—Source, artesian well, with Mississippi river as reserve; system, direct pumping; 2 pumping engines, dy cap 2,500,000 gals; 65 hydrants; pipe 5½ miles; waterworks owned by company; cost to construct \$70,000. Supt, James Burke.

Grenada, Grenada Co., population 2,700; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells.

Hattiesburgh, Perry Co., population 2,000; fire area 100 acres; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. No fire department, contemplate one.

WATER SUPPLY—Source, wells; system contemplated. Mayor, J. M. Williamson.

Hazlehurst, Copiah Co., population 1,515; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.

WATER SUPPLY—Source, wells and springs.

Holly Springs, Marshall Co., population 2,500; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. No fire department.

WATER SUPPLY—Source, 6 public cisterna.

Jackson, Hinds Co., population 5,920; fire area 1,800 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—3 steam fire engines, 1 hand engine, 1 hook and ladder truck, 5 hose carriages, slamese couplings used; hose, rubber good 2,000 ft, 500 ft fair; 5 horses, value \$1,250; value of fire department equipment \$12,000; value of buildings occupied \$9,500; total ann expenses of department \$4,000; total membership 200, paid full time 3, paid part time 4; bell alarm, Gamewell alarm; 13 street boxes; 3 engine companies, 1 hook and ladder company, 4 hose companies. Chief engineer, George S. Green.

WATER SUPPLY—Source, Pearl river; system, pump to standpipe (direct for large fire); cap 230,000 gals; pumping engine, dy cap 2,000,000 gals; 140 hydrants; pipe 16 miles, 4 to 12 in dia; valves 52; pressure 40 to 125 pounds; waterworks owned by company; cost to construct \$110,000; cost of works to date \$125,000; ann expenses \$8,000. Supt, W. F. Wilcox.

Kosciusko, Attala Co., population 1,850;

buildings, brick and wood, 1 and 2 stories. No fire department.

WATER SUPPLY—Source, wells. Town clerk, S. P. Rimmer.

Lexington, Holmes Co., population 1,075; fire area 1,200 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—25 chemical extinguishers.

WATER SUPPLY—Source, wells and springs. Mayor, G. A. Shackelford.

McComb, Pike Co., population 2,383; buildings, wood, 1 story; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 500 ft; value of fire department equipment \$500; total ann expenses of department \$100; total membership 30, volunteers; bell and whistle alarm.

WATER SUPPLY—Source, 3 cisterna. Mayor, O. B. Quinn.

Macon, Noxubee Co., population 2,000 to 2,500; fire area 800 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck; total membership 35, volunteers; bell alarm; 1 hook and ladder company. Pres, W. M. Jones.

WATER SUPPLY—Source, 250 cisterna, dy cap 10,000 gals.

Meridian, Lauderdale Co., population 12,000; fire area 280 acres; mercantile buildings, brick, 1 to 5 stories; private, wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—3 steam fire engines, 1 hook and ladder truck, 2 chemical extinguishers, 5 hose carriages; hose, cotton good 3,000 ft, rubber good 1,000 ft, inferior 500 ft; 4 horses, value \$800; value of fire department equipment \$15,000; value of buildings occupied \$5,000; total ann expenses of department \$3,000; total membership 156, volunteers, paid 3; American alarm; 20 street boxes; 3 engine companies, 2 hose companies. Chief engineer, Jno. R. Farrell.

WATER SUPPLY—Source, springs and surface water; system, gravity and direct pumping; reservoir cap 300,000,000 gals; pumping engine, dy cap 6,000,000 gals; 130 hydrants; pipe 15 miles, pressure, domestic 60, fire 90 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$6,000. Supt, R. K. Hackett.

Moss Point, Jackson Co., population 1,750; buildings, wood, 1 story; wooden roofs are permitted. Fire department—1 steam fire engine, 1 hose carriage; hose, cotton good 400 ft, inferior 150 ft; value of equipment \$1,300; total membership 37, volunteers; bell alarm. Foreman, J. J. McIntosh.

WATER SUPPLY—Source, river and lake.

Natchez, Adams Co., population 12,000; fire area 1 sq mile; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 10 hose carriages, all kinds, 2 supply wagons; hose, rubber good 2,000 ft, inferior 500 ft; 4 horses, value \$1,000; value of fire department equipment \$14,000; value of buildings occupied \$10,000; total ann expenses of department \$5,000; total membership 400, paid full time 2, volunteer members 300; bell alarm. Chief engineer, Jno. J. O'Ferrall.

WATER SUPPLY—Source, 5 wells; system, pump to standpipe, cap 128,900 gals; pumping engine, dy cap 1,250,000 gals; 110 hydrants; pipe 11½ miles, 6 to 14 in dia; 67 valves; pressure 40 to 73 pounds; works owned by company. Pres of com, J. F. Thompson.

Ocean Springs, Jackson Co., mercantile buildings. Fire department not reported.

WATER SUPPLY—Source, artesian wells; system, pumping direct; standpipe cap 32 ft; 80 hydrants; pipe 1½ miles, 2½ and 1½ in dia; taps 75; waterworks owned by A. E. Lewis; expenses of construction to date \$3,500; ann expenses \$50.

Okolome, Chickasaw Co., population 2,500; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. No fire department.

Oxford, Lafayette Co., population 1,540; mer-

cantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; ladders and buckets.

WATER SUPPLY—Source, 3 cisterns and wells.

Port Gibson, Claiborne Co., population 1,524; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—Bahcock extinguishers, 1 hook and ladder truck; bell alarm. City Marshall, F. M. Bea.

WATER SUPPLY—Source, cisterns. Town clerk, Frank H. Foote.

Seranton, Jackson Co., population 1,353; buildings, wood, 9 and 10 feet high. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, good 300 ft; total membership 78, volunteers; bell alarm.

WATER SUPPLY—Source, artesian wells; system, gravity; reservoir cap 6,000 gals; 80 hydrants, various; pipe 3½ miles, 4 in dia; 40 valves; pressure 32 pounds; works owned by F. H. Lewis; cost to construct \$3,500, to date \$4,000. Owner and manager, F. H. Lewis.

Senatobia, Tate Co., population 1,077; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.

WATER SUPPLY—Source, 1 public cistern and 3 large public wells. Mayor, A. A. Taylor.

Starkville, Oktibbeha Co., population 1,725; fire area 1,250 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical extinguisher, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 260 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,000; total ann expenses of department \$102; total membership 23, volunteers; bell alarm; 1 hook and ladder company. Chief engineer, J. G. James.

WATER SUPPLY—Source, spring and several cisterns of cap 1,200 bbls each.

Summitt, Pike Co., population 1,800; fire area 40 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—5 chemical extinguishers, 1 hook and ladder truck with 15 fire buckets; value of fire department equipment \$850; value of buildings occupied \$750; total ann expenses of department \$50; membership 20, volunteers; bell alarm; 1 hook and ladder company. Foreman, Matt. F. Gracey.

WATER SUPPLY—Source, 12 cisterns with cap of 8,000 gals. Town clerk, S. A. Mathews.

Tupelo, Lee Co., population 1,477; buildings wood, 1 and 2 stories; fireworks ordinance; business houses compelled to have ladders and buckets.

WATER SUPPLY—Source, artesian wells. Mayor, W. C. Backin.

Vicksburg, Warren Co., population 13,373; fire area 640 acres; mercantile buildings, brick and iron, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted. Fire department—3 steam fire engines, 1 hook and ladder truck, 5 hose carriages, horse and buggy for chief; hose, rubber good 1,500 ft, inferior 500 ft; 6 horses; value \$1,500; value of fire department equipment \$15,000; value of buildings occupied \$13,000; total ann expenses of department \$10,000; membership, paid full time 6, part time 20; bell and telephone alarm; 4 hose companies. Chief engineer, Jacob Voelink; chairman of fire and water com., J. B. Smith. (Additional hose will be purchased.)

WATER SUPPLY—Source, Mississippi river; system, pumping to settling basins and then to standpipe; standpipe cap 330,000 gals; cap of basins 2,150,000; 4 pumping engines, 4 cap 6150,000 gals; 105 hydrants; pipe 15½ miles, 4 to 16 in dia; 75 valves; pressure 40 to 140 pounds; waterworks owned by company; cost to construct \$364,000. Supt, Chester R. McFarland.

Water Valley, Yalobusha Co., population 4,000; fire area 5 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Waterworks contemplated.

Weason, Copiah Co., population 3,168; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; iron and slate roofs. Fire department—18 chemical extinguishers, 1 hook and ladder truck, 1 hand hose cart, 3 hose carriages; hose, cotton good 600 ft, inferior 300 ft, rubber good 600 ft, inferior 300 ft, leather good 200 ft, linen good 200 ft, inferior 200 ft; value of equipment \$17,000; total membership 12, volunteers; bell and whistle alarm. Chief engineer, J. J. Stevens.

WATER SUPPLY—Source, creek and cisterns; system, pumping to reservoir and direct; cap of tank 161,000 gals; pumping engines, 4 cap 3,250,000 gals; 22 hydrants; pipe 1¼ miles, 6 in dia; 48 gates; pressure 80 pounds; cost to construct \$17,000; ann expenses \$500. Supt, John Hopkinson.

Winona, Montgomery Co., population 1,648; fire area 1 sq mile; mercantile buildings, brick and iron, 1 story; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance. Water buckets.

WATER SUPPLY—Source, wells. Mayor, T. H. Walker.

Woodville, Wilkinson Co., population 950; buildings, brick and wood, 1½ stories; wooden roofs permitted. Fire department—1 hook and ladder truck.

WATER SUPPLY—Source, cisterns.

Yazoo City, Yazoo Co., population 5,000; fire area 450 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages; hose, 2,000 ft in good condition; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$3,000; total membership 120, paid full time 1, volunteers 110; bell alarm; 3 fire companies. Chief engineer, Robt. H. Borgella.

WATER SUPPLY—Source, artesian well; system, pump to standpipe; cap 100,000 gals; reservoir cap 200,000 gals; pumping engines, 4 cap 1,500,000 gals; 53 hydrants; pipe 7 miles, 4 to 10 in dia; 60 valves; quality of water good; pressure, domestic 107, fire 100 pounds; ann expenses \$3,000; works owned by company; cost to construct \$100,000. Supt, S. G. Bedwell.

Places having a population of 1,000 and upward that have no fire protection: Durant, Holmes Co., population 1,259; Gloster, Amite Co., population 1,142; Greenwood, Le Flore Co., population 1,055; Grenada, Grenada Co., population 2,416; Hattiesboro, Harrison Co., population 1,031; Hattiesburg, Perry Co., population 1,172; Iuka, Tishomingo Co., population 1,019; Sardia, Panola Co., population 1,044; West Point, Clay Co., population 2,762.

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Adrian, Bates Co., population 613; fire area 160 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, wells.*

Appletown City, St. Clair Co., population 1,081; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck.*

WATER SUPPLY—Source, wells and cisterns.

Aurora, Lawrence Co., population 5,693; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not per-

mitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; total membership 65, volunteers; bell alarm; 3 fire companies, hook and ladder company, 2 hose companies. Chief engineer, C. H. Barnard.

WATER SUPPLY—Source, spring river; system, pumping to standpipe; reservoir cap 2,000,000 gals; standpipe cap 125,000 gals; pumping engines, 4 cap 2,000,000 gals; hydrants 63; pipe 13 miles, 10 to 4 in dia; 83 valves; 160 taps; pressure, domestic 60, fire 60 to 100 pounds; waterworks owned by company; cost to construct to date \$35,-

000; ann expenses \$6,000. Supt and gen'l manager, J. Guinley.

Bellivar, Polk Co., population 1,475; fire area 10 acres; mercantile buildings, brick and iron, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, private wells and cisterns. Town clerk, C. H. Shinker. (Are building waterworks.)

Bonne Terre, St. Francois Co., population 3,800; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage.*

WATER SUPPLY—Source, river.*

Bloomville, Cooper Co., population 4,141; fire area 320 acres; buildings, brick, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 chemical extinguisher, 3 hose carriages; hose, cotton good 1,300 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,200; expenses for past year \$283; total membership 22, volunteers; bell alarm. Chief engineer, L. H. Levens.*

WATER SUPPLY—Source, Missouri river; system, pumping to reservoir; reservoir cap 5,000,000 gals; standpipe cap 60,000 gals; pumping engines, dy cap 1,200,000 gals; 64 hydrants; pipe 3½ miles, 4 to 10 in dia; 16 valves; 250 taps; pressure, domestic 40 to 60, fire 85 pounds; waterworks owned by company; cost to construct \$84,000; cost to date \$92,000. Supt, R. Hadelieb.

Brookfield, Linn Co., population 4,547; mercantile buildings, brick and wood, 1 to 2½ stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck.*

WATER SUPPLY—Source, Cook wells, pumping to standpipe; pumping engines, dy cap 1,000,000 gals; 30 hydrants; pipe 5 miles, 10 to 4 in dia; 12 valves; 1 meter; pressure 65 to 85 pounds; works owned by city; cost to construct \$24,950; ann expenses \$1,200. Supt, John Barbel.*

Brunswick, Charlton Co., population 1,748; buildings, brick and wood, 2 stories. Fire department—1 hand engine, 2 chemical extinguishers; hose, rubber good 200 ft. Chief engineer, Geo. Klinghil.*

WATER SUPPLY—Source, river and wells. Town clerk, W. A. Knappenberger. (Have voted to build waterworks.)

Butler, Bates Co., population 3,500; fire area 660 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,400; value of buildings occupied \$3,000; total ann expenses of department \$435; total membership 47, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, George W. Hly.

WATER SUPPLY—Source, Miami river; system, pumping to reservoir thence to standpipe; reservoir cap 1,200,000 gals; standpipe cap 115,000 gals; pumping engines, dy cap 1,750,000 gals; 2 settling and 1 storage reservoir; 78 hydrants; pipe 9 3-8 miles, 8 to 4 in dia; 40 valves; 175 taps; works owned by company; cost to construct \$75,000. Pres, F. J. Tygard; supt, H. B. Robinson.

California, Montaupe Co., population 1,772; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—hooks and ladders.*

WATER SUPPLY—Source, wells. Town clerk, J. C. Hickcox.*

Cammeron, Clinton Co., population 2917; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, good 600 ft; value of equipment \$1,500; expenses of department for past year \$150; total membership 40, volunteers. Chief, C. W. Davis.

WATER SUPPLY—Source, wells and cisterns.

Canton, Lewis Co., population 2,540; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in

business section; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 40 buckets; hose, cotton good 2,400 ft, inferior 500 ft; value of fire department equipment \$10,000; value of buildings occupied \$4,000; total ann expenses of department \$1,000; total membership 85, paid full time 1, volunteers 84; bell alarm; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, L. H. Condit.

WATER SUPPLY—Source, artesian well; 1 reservoir; 26 hydrants; pipe 2½ miles, 6 in dia; 8 valves; pressure 70 pounds; works owned by city; cost to date \$14,000. Supt, L. H. Condit.

Cape Girardeau, Cape Girardeau Co., population 4,297; mercantile buildings, brick, stone and iron, 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft, rubber inferior 400 ft; value of fire department equipment \$1,200; value of buildings occupied \$400; total ann expenses of department \$500; total membership 125, volunteers 50; bell alarm. Chief engineer, John Wolter.*

WATER SUPPLY—Source, river, creek and cisterns. City clerk, George E. Chappell.*

Carrollton, Carroll Co., population 3,878; fire area 1½ miles sq; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 and 2 stories; tin and gravel roofs; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, inferior 100 ft; value of fire department equipment \$2,500; value of buildings occupied \$4,000; total ann expenses of department \$300; total membership 82, volunteers; telephone alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Louis Brunworth.

WATER SUPPLY—Source, wells; system, direct and pump to standpipe, cap 101,520 gals; pumping engines, dy cap 2,000,000 gals; 35 valves; 31 hydrants; pipe 5 miles, 4 to 10 in dia; 200 taps; pressure, domestic 80, fire 150 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$2,500. Supt, S. J. Rosamond.

Cartersville, Jasper Co., population 2,500; fire area 160 acres; mercantile buildings, iron, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 600 ft, rubber good 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,500; total ann expenses of department \$80; total membership 30, volunteers; bell alarm. Chief engineer, Sidney Byers.

WATER SUPPLY—Source, spring and creek, 2½ miles from city; system, pumping to standpipe; standpipe cap 125,000 gals; pumping engines, dy cap 1,000,000 gals each (2); 64 hydrants; pipe 4½ miles, 4 to 10 in dia; 9 valves; 238 taps; pressure, domestic 45, fire 80 pounds; waterworks owned by company. Pres of com, James O'Neill.

Carthage, Jasper Co., population 7,981; fire area 9 sq miles; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose wagons; hose, cotton inferior 500 ft, rubber good 2,500 ft, inferior 1,000 ft; 6 horses, value \$900; value of fire department equipment \$2,800; value of buildings occupied \$3,500; total ann expenses of department \$2,000; total membership 30, paid full time 2, volunteers 28; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. H. Thomas.

WATER SUPPLY—Source, Spring river; system, pumping to 2 standpipes and direct; cap of standpipes 250,000 gals; pumping engines, dy cap 1,500,000 gals; 78 hydrants; pipe 15 miles; pressure, domestic 40, fire 118 pounds; waterworks owned by company; cost to construct \$1,000,000; ann expenses \$3,800. Pres of com, C. H. Martin; supt, H. C. Messenger.

Charleston, Mississippi Co., population 2,000; fire area 500 acres; buildings, brick and wood, 1 and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 3 chemical extinguishers, 1 hose cart and leather buckets; hose, cotton good 300 ft, poor 200 ft; value of fire department equipment \$1,000; value

of buildings occupied \$50; bell alarm. Chief, Simon Loebe.

WATER SUPPLY—Source, driven wells and pond.

Chillicothe, Livingston Co., population 5,717; 1½ miles sq; mercantile buildings, brick and stone, 3 and 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,500 ft, inferior 500 ft; value of fire department equipment \$1,600; total ann expenses of department \$500; total membership 20, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, H. O. Meek.

WATER SUPPLY—Source, Grand river; system, pump to standpipe and direct; standpipe cap 1,400,000 gals; pumping engines, dy cap 500,000; 117 hydrants; pipe 15 miles, 4 to 12 in dia; 18 valves; pressure, domestic 40, fire 150 pounds; works owned by company; cost to construct \$250,000; ann expenses \$10,000. Manager, Van Coughlin.

Clinton, Henry Co., population estimated 7,000; fire area about 48 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, metal roofs; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carts; hose, rubber good 200 ft, poor 300 ft, cotton good 1,600 ft; value of fire department equipment \$3,000; value of buildings \$0,000; total ann expenses of department \$600; total membership 80, volunteers; bell alarm. Chief engineer, J. N. Bixman.

WATER SUPPLY—Source, artesian well and 6 wells; system, pumping to reservoir, standpipe and direct; reservoir cap 2,000,000 gals; standpipe cap 80,000 gals; pumping engines, dy cap 1,000,000 gals; 56 hydrants; pipe 5½ miles, 4 to 10 in dia; pressure, domestic 75, fire 140 pounds; waterworks owned by company; cost to construct to date \$173,967; ann expenses \$5,000. Supt, J. H. Sheldon.

Columbia, La Fayette Co., population 5,000. Fire department—not reported.

WATER SUPPLY—Source, creek; system, pumping direct; pumping engines, dy cap 1,500,000 gals; 48 hydrants; pipe 5 miles, 12 to 4 in dia; pressure, domestic 60, fire 125 pounds. Supt, Jas. M. Sherman.

Corder, LaFayette Co., population 750; mercantile buildings, wood and brick, 1 story; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—No waterworks.

Deepwater, Henry Co., population 2,000; fire area 240 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 100 ft, rubber good 30 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 30, volunteers; bell alarm. Chief engineer, J. L. Simmons.

WATER SUPPLY—not reported.

De Soto, Jefferson Co., population 5,000; fire area 3-4 sq mile; mercantile buildings, brick, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; axes, hooks etc; hose, cotton good 300 ft, rubber good 300 ft; value of fire department equipment \$1,600; value of buildings occupied \$500; total ann expenses of department \$250; total membership 36, paid full time 1; whistle alarm. Chief engineer, Ward Cunningham.

WATER SUPPLY—not reported.

Edina, Knox Co., population 1,800; buildings, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 300 ft; total membership 25, volunteers; bell alarm. Chief engineer, John Grainger.

WATER SUPPLY—not reported.

Eldorado Springs, Cedar Co., population 2,500; fire area 25 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated.

Excelsior Springs, Clay Co., population 2,034; fire area 1 sq mile; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$2,500; value of buildings occupied \$200; 32 volunteer members; bell alarm. Chief engineer, William Redman.

WATER SUPPLY—Source, creek; system, pumping to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 200,000 gals; 19 hydrants; pipe 3 miles, 4 to 12 in dia; pressure, domestic 80, fire 110 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$1,300. Supt, E. L. Morse.

Festus, Jefferson Co., population 1,800; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

Fulton, Callaway Co., population 4,314; fire area 1 mile; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 and 2 stories; slate and tin roofs used; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; total membership 20, volunteers; telephone alarm. Chief engineer, J. H. Buchanan.

WATER SUPPLY—Source, artesian well; system, pump to reservoir, cap 132,000 gals; standpipe cap 100,000 gals; pumping engines, dy cap 720,000 gals; 47 hydrants; pipe 4 miles, 6 and 4 in dia; 14 valves; 121 taps; pressure, domestic 20, fire 40 pounds; cost to construct \$23,000; ann expenses \$1,200. Supt, John H. Buchanan.

Gallatin, Davies Co., population 1,489; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels; hose, cotton good 200 ft; value of fire department equipment \$600; bell alarm.

WATER SUPPLY—Source, wells and cisterns.

Golden City, Barton Co., population 1,000; mercantile buildings, brick and iron, 1 story; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance.

WATER SUPPLY—Source, 2 public wells on main street. City clerk, E. E. Harrah.

Hamilton, Caldwell Co., population 1,641. Fire department—2 hand engines, hooks, ladders, pikes, etc; total membership 40; 1 hook and ladder company. Chief engineer, W. V. Walker.

WATER SUPPLY—Source, cisterns.

Hannibal, Marion Co., population 12,837; fire area 2,060 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 6,000 ft, 4 horses; value of fire department equipment \$13,200; value of buildings occupied \$5,000; total ann expenses of department \$2,750; total membership 30, paid part time 6; telephone and bell alarm. Chief engineer, T. B. Parks.

WATER SUPPLY—Source, Mississippi river; system, pumping to reservoir, cap 17,500,000 gals; pumping engines, dy cap 4,000,000 gals; 90 hydrants; pipe 18½ miles, 4 to 16 in dia; 116 valves; 1,200 taps; pressure 100 pounds; works owned by company; cost to construct \$200,000; ann expenses \$6,000. Supt, C. J. Lewis.

Hermann, Gasconade Co., population 1,500; fire area 960 acres; buildings, brick and stone, 2 to 4 stories; private, brick and stone, 1 and 2 stories. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, inferior 300 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; total ann expenses of department \$150; total membership 75, volunteers; bell alarm. Chief engineer, Hugo Kropp.

WATER SUPPLY—Source, river and 6 large cisterns; cap 100,000 gals.

Higginsville, Lafayette Co., population 2,315; fire area 20 acres; mercantile buildings, brick and iron, 2 stories; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance. No fire department.*

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; dy cap 750,000 gals (works in course of construction). Mayor, Thos. Walker; city clerk, U.S. Dom. Blasker.*

Holden, Johnson Co., population 2,520; fire area 120 acres; mercantile buildings, brick and stone, 2 stories; private, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,000; total ann expenses of department \$175; total membership 40, volunteers; bell alarm. Chief engineer, J. V. Murray.

WATER SUPPLY—Source, not given; system, pumping through filter to standpipe; standpipe cap 75,000 gals; impounding reservoir; pumping engines, dy cap 1,250,000 gals; 50 hydrants; pipe 6 1-4 miles; pressure 80 pounds. Supt, B. J. Miller.*

Independence, Jackson Co., population 6,380. Fire department—1 hook and ladder truck, 1 hose carriage; hose, good 1,000 ft; total membership 30, volunteers. Chief engineer, J. George.*

WATER SUPPLY—Source, Missouri river; system, pumping to reservoirs and to standpipe; standpipe cap 250,000 gals; reservoirs 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 50 hydrants; pipe 8 1/2 miles, 10 to 4 in dia; 18 valves; 425 taps; pressure, domestic 50 to 70, fire 100 to 120 pounds; waterworks owned by company; cost to construct about \$100,000; ann expenses \$6,000. Supt, B. D. Wirt.

Iron Mountain, Saint Francois Co., population 1,101; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 400 ft. Chief engineer, A. J. Shyyper.*

WATER SUPPLY—Source, dam 1 mile distant; system, pump to reservoir, cap 2,000,000 gals; pumping engines, dy cap 1,000,000 gals; pipe 1 mile, 2, 8, 12 in dia; quality of water rain; works owned by company; pressure 140 pounds. Pres and supt of com, O. C. Moffett.*

Jamesport, Daviess Co., population 800; fire area 6 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, buckets, ladders and picks; no organized department. City marshal, J. B. Melone.

WATER SUPPLY—Source, wells and cisterns.

Jefferson City, Cole Co., population 9,000; fire area 1 sq mile; mercantile buildings, brick, 2 and 3 stories; private, brick, 1 and 2 stories; wooden roofs permitted but mostly tin used; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, 1 hose wagon, pomper ladders; hose, rubber good 2,000 ft; value of fire department equipment \$1,200; value of buildings occupied \$200; total ann expenses of department \$675; total membership 30, volunteer; telephone alarm; 5 fire companies. Chief, H. Schmidt.

WATER SUPPLY—Source, Missouri river; system, pumping to reservoir and to standpipe; 2 reservoirs, cap 800,000 gals each; standpipe cap 300,000 gals; pumping engines, dy cap 1,250,000 gals; 74 hydrants; pipe 8 miles, 4 to 14 in dia; 38 valves; 160 taps; pressure, domestic 70, fire 85 to 90 pounds; works owned by company; cost to construct \$140,000. Supt, J. W. Edwards.

Joplin, Jasper Co., population 16,000; fire area 2 miles square; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hook and ladder trucks, 3 hose carriages, 1 hose wagon; hose, cotton good 2,500 ft, inferior 1,200 ft, rubber good 500 ft; 4 horses, value \$800; value of fire department equipment \$7,000; value of buildings \$2,000; total ann expenses of department \$1,000; total membership 33, volunteer; Gamewell alarm; 12 street boxes; 3 fire companies. Chief engineer, A. Houghton.

WATER SUPPLY—Source, Shoal creek; system, pumping to reservoir; cap 3,000,000 gals; pump-

ing engines, dy cap 3,000,000 gals; 145 hydrants; pipe 22-2-10 miles, 4 to 12 in dia; 22 meters; pressure, domestic 30 to 60, fire 90 to 120 pounds; 1,200 taps; waterworks owned by company; cost to construct \$124,000; ann expenses \$13,690.59. Supt, C. W. Glover.*

Kahoka, Clark Co., population 2,000; fire area 40 acres; buildings, brick and wood, 1 and 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose wagon; hose, rubber good 100 ft; value of fire department equipment \$400; value of buildings occupied \$50; total membership 10, volunteer. Chief engineer, Ben E. Turner.

WATER SUPPLY—Source, wells and private cisterns.

Kansas City, Jackson Co., population 152,000; fire area 13 sq miles; mercantile buildings, brick and stone, 2 to 10 stories; private, brick, stone and wood, 1 to 5 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—7 steam fire engines, 40 chemical extinguishers, 3 hook and ladder trucks, 2 aerial trucks, 10 hose carriages, all kinds, 5 hose wagons, 2 supply wagons, 2 Hale water towers, insurance patrol; hose, cotton good 24,350 ft, inferior 1,200 ft, cotton (2 in) 1,200 ft; 57 horses, value \$200 per head; value of fire department equipment and value of buildings occupied \$284,550; total ann expenses of department \$165,000; total membership 128, paid full time 120; watch boys 15, insurance patrol 16 men; telephone alarm; 2,700 street boxes. Chief engineer, Geo. C. Hale. Also, 3 large tank cars provided with pumps operated by steam from switch engines.

WATER SUPPLY—Source, Missouri river; system, gravity direct and pumping to standpipe; reservoir cap 90,000,000 gals; standpipe cap 235,000 gals; pumping engines, dy supply 83,000,000 gals; 1,648 hydrants; pipe 167 miles, 42 to 4 in dia; 1,050 valves; 13,000 taps; pressure, domestic 130, fire 165 to 175 pounds; Edison pressure recording gauge; works owned by company. Pres, Giles E. Taintor; supt, B. F. Jones.

Kirkville, Adair Co., population 5,000; fire area 1 1/2 sq miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 500 ft, inferior 500 ft; value of fire department equipment \$10,000; value of buildings occupied \$2,500; total membership 50, volunteers; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, O. B. Prickett.

WATER SUPPLY—Source, cisterns and artesian wells; waterworks to cost \$20,000 will be put in this year.

Kirkwood, St. Louis Co., population 2,000; fire area 1 mile sq; mercantile buildings, brick and wood, 2 and 3 stories; private, brick, stone and wood, 2 stories; wooden buildings not permitted in fire limits; no fireworks ordinance. Albert N. Edwards, chairman.

WATER SUPPLY—Source, cisterns and artesian wells. Mayor, Albert N. Edwards.

Knobnoster, Johnson Co., population 1,000; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted, tin and shingle used principally; fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers.

WATER SUPPLY—Source, wells.

La Grange, Lewis Co., population 1,300; fire area 500 acres; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$500; value of buildings occupied \$1,300; total membership 12; bell alarm. Chief engineer, I. B. Summers.

WATER SUPPLY—Source, Mississippi river.*

Lamar, Barton Co., population 3,000; fire area 300 acres; mercantile buildings, stone and brick, 1 to 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, all kinds; hose, cotton inferior 400 ft, rubber good 1,000 ft; value of

fire department equipment \$1,000; value of buildings occupied \$200; total ann expenses of department \$150; total membership 42, volunteers; bell alarm. Chief engineer, S. B. Smith.

WATER SUPPLY—Source, spring and river, 2½ miles distant; system, pump to standpipe and direct; standpipe cap 14 x 125 ft high; pumping engines, dy cap 1,000,000 gals; 60 hydrants; pipe 8 miles, 8 in dia; 24 valves; pressure 60 to 70 pounds; works owned by company. Pres and mgr of com, J. Guinney.*

Lebanon, Laclede Co., population 2,218; mercantile buildings, brick, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$500; membership 25, volunteers; whistle alarm. Chief engineer, H. V. Wright.

WATER SUPPLY—Source, well, 1,000 ft deep; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 200,000 gals; 19 hydrants; pipe 3-4 mile, 8 in dia; 4 valves; pressure 45 pounds; works owned by company. Supt, J. E. Fulkerson.*

Lee Summit, Jackson Co., population 1,600; fire area 250 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 350 ft; value of fire department equipment \$800; value of buildings occupied \$125; total membership 35, volunteers; bell alarm. Ex-chief, M. B. Orker.

WATER SUPPLY—Source, wells, ponds and cisterns.

Lexington, Lafayette Co., population 4,537; fire area 600 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, same, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 200 ft, rubber good 700 ft, inferior 750 ft; 2 hoses; value of fire department equipment \$3,000; value of buildings occupied 2,500; total membership 50, volunteers; telephone and bell alarm. Chief engineer, G. C. Kist.

WATER SUPPLY—Source, Missouri river; system, pumping to settling reservoirs and standpipe; cap of reservoir 1,000,000 gals; standpipe cap 350,000 gals; pumping engines, dy cap 1,500,000 gals; 50 hydrants; pipe 8 miles; 30 valves; 425 taps; pressure, domestic 65, fire 100 pounds; waterworks owned by company; cost to construct \$60,000; ann expenses \$5,000. Pres, Wm. Morrison; supt, L. C. Yates.

Liberty, Clay Co., population 2,800; fire area 1 sq mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; total ann expenses of department \$1,500; total membership 50; bell fire alarm. Chief engineer, John W. Hall.

WATER SUPPLY—not reported.

Louisiana, Pipe Co., population 5,090; fire area 16 blocks; mercantile buildings, brick, 2 to 4 stories; private, wood and brick, 2 stories; wooden roofs not permitted. Fire department—1 hose carriage; hose, cotton good 400 ft, inferior 200 ft, rubber good 800 ft, inferior 300 ft; 2 hoses, value \$900; value of fire department equipment \$4,000; value of buildings occupied \$2,000; total ann expenses of department \$1,800; total membership 10, paid part time 9; telephone and bell alarm. Chief engineer, C. S. Smith.

WATER SUPPLY—Source, Mississippi river; system, pump to reservoir, cap 1,250,000 gals; dy cap 1,500,000 gals; 55 hydrants; pipe 6 miles, 4 to 12 in dia; 18 valves; 3 meters; pressure 120 pounds; cost to construct \$7,000. Supt, S. B. Culver.*

Macon, Macon Co., population 3,371; fire area 13 acres; mercantile buildings, brick, iron and wood, 1 to 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 2,100 ft, inferior 400 ft; value of fire department equipment \$13,000; value of buildings occupied \$2,500; total

membership 25, all volunteers; bell alarm. Chief engineer, T. E. Haley.

WATER SUPPLY—Source, creek, 1½ miles distant; system, pumping direct; reservoir cap 150,000 gals; pumping engines, dy cap 160,000 gals; 26 hydrants; pipe 6 miles, 4 to 10 in dia; 5 valves; 150 taps; pressure, domestic 120, fire 175 pounds; waterworks owned by city; cost to construct \$35,000. Supt Chas. L. Farror

Marionville, Lawrence Co., population 1,900; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—No waterworks.

Marshall, Saline Co., population 5,000; fire area 6 acres; mercantile buildings, brick and wood, 1½ to 3 stories; private, brick and wood, 1½ and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 800 ft, poor 600 ft; 2 hoses, value \$300; value of fire department equipment \$1,500; total expenses for last year \$900; total membership 4, paid full time; bell alarm. Chief engineer, M. W. Cox.

WATER SUPPLY—Source, driven and artesian well; system, direct pumping; pumping engines dy cap 1,000,000 gals; 71 hydrants; pipe 5-3-4 miles, 10 to 6 in dia; 12 valves; pressure, domestic 65, fire 120 to 130 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$8,000. Supt, E. R. Page.

Maryville, Nodaway Co., population 5,000; fire area 640 acres; buildings, brick, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 aerial truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,200 ft, inferior 450 ft; 2 hoses, value \$300; value of equipment \$2,700; value of buildings occupied \$3,000; ann expenses \$1,200; membership 8, paid full time; bell alarm. Chief, J. B. Johnston.

WATER SUPPLY—Source, One Hundred and Two river; system, pumping to standpipe and direct; standpipe cap 250,000 gals; pumping engines, dy cap 2,000,000 gals; 55 hydrants; pipe 8 miles; valves 27 meters; pressure 55 pounds; waterworks owned by company; cost to construct \$85,000; ann expenses \$1,440. Pres of com, Wm. O. Cole; supt, G. P. Denny.*

Memphis, Scotland Co., population about 2,500; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted but not used; fireworks ordinance; causes of fire investigated. No organized fire department—bucket brigade and several chemical extinguishers.

Meramec Highlands, St. Louis Co., population 3,858; fire area 1-4 mile sq; mercantile buildings, stone and wood, 2 stories. Fire department—2 hose carriages; hose, rubber good 800 ft; volunteer department.

WATER SUPPLY—Source, Meramec river; system, pumping to standpipe; standpipe cap 30,000 gals; pumping engines, dy cap 500,000 gals; hydrants 8; pipe 3 miles, 4 to 12 in dia; 8 valves; pressure, domestic 80 to 100, fire 175 pounds. Pres, M. Bernheimer; supt, S. M. Lederer.

Mexico, Audrain Co., population 6,000; fire area 1,200 acres; buildings, brick and wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hose carriages, 2 hose wagons; hose, cotton good 1,400 ft; value of equipment \$1,200; value of building \$5,000; ann expenses \$300; total membership 14; bell alarm. Chief engineer, David O. Owen.

WATER SUPPLY—Source, surface water and springs; system, direct pumping; reservoir, cap 50,000,000 gals; pumping engines, dy cap 1,750,000 gals; 58 hydrants; pipe 6 miles, 12 to 6 in dia; 77 valves; 20 meters; pressure domestic 60, fire 120 pounds; waterworks owned by company; cost to construct \$60,000; ann expenses \$4,000. Supt, Jno. J. Steele.

Milan, Sullivan Co., population 1,500; fire area 1 sq mile; mercantile buildings, brick, 2 stories; private, wood, 1 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire not investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, 330 ft; value of equipment \$800; value of buildings occupied \$90; ann expenses \$10

24 volunteer members. Chief engineer, O. P. Slock.

WATER SUPPLY—Source, private wells.

Meberly, Randolph Co., population 9,000; fire area 50 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 8 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft, inferior 450 ft; value of fire department equipment \$2,000; value of buildings occupied \$10,000; total membership 15, paid part time; telephone and bell alarm. Chief engineer, T. G. Loury.*

WATER SUPPLY—Source, surface water and 1 reservoir; system, pumping direct; reservoir cap 143,000 000 gals; pumping engines, dy cap 1,800,000 gals; 70 hydrants; pipe 6½ miles, 8 to 14 in dia; 82 valves; 505 taps; pressure, domestic 75, fire 150 pounds; cost to construct \$100,000; ann expenses \$4,065. Supt, H. V. Estill.

Montgomery City, Montgomery Co., population 2,199; fire area 800 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; no fireworks ordinance; wooden roofs permitted.

WATER SUPPLY—Source, public well; tank cap 30,000 gals. Town clerk, L. A. Thompson.

Mound City, Holt Co., population 1,500; fire area 1 mile square; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, buckets, ladders, etc.; 700 ft good rubber hose; value of equipment \$1,200; value of buildings occupied \$100; membership 18 volunteers; bell alarm. Chief, F. C. Wostenbarger.

WATER SUPPLY—Source, tube wells; system, pumping to standpipe, cap 35,000 gals; pumping engines, dy cap 500,000 gals; 18 hydrants; pipe 2 miles, 8 to 4 in dia; 8 valves; works owned by city; cost to construct \$14,000. Mayor, J. S. Hart; town clerk, J. M. Hames.

Mountain Grove, Wright Co., population 830; buildings, brick and wood, 2 stories. No organized fire department—1 hand engine. City clerk, H. E. Inman.*

WATER SUPPLY—Source, wells and cisterns.*

Neosho, Newton Co., population 3,000; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 500 ft; value of fire department equipment \$2,000; total membership 20, volunteers; bell alarm; 1 hose company. Chief engineer, John M. Sherwood.

WATER SUPPLY—Source, Elm springs, 5 miles east of city; system, gravity; reservoir cap 500,000 gals; 85 hydrants; pipe 13 miles, 10 to 4 in dia; 40 valves; 900 taps; pressure, domestic 50, fire 60 pounds; works owned by company; cost to construct \$50,000; ann expenses \$500. Supt, C. Bays.

Nevada, Vernon Co., population 9,000; fire area 1,000 acres; mercantile buildings, brick, stone, iron and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton new 1,400 ft, rubber good 1,000 ft; 4 horses, value \$500; value of fire department equipment \$7,000; value of buildings occupied \$4,000; total ann expenses of department \$2,000; membership 64, volunteers; bell alarm. Chief, F. A. Mitchell.

WATER SUPPLY—Source, Marimaton river, 3 miles from city; system, pumping to standpipe and direct; reservoir cap 1,500,000 gals; standpipe cap 50,000 gals; pumping engines, dy cap 4,500,000 gals; 77 hydrants; pipe 18 miles, 10 to 4 in dia; 550 taps; pressure, domestic 30, fire 130 pounds; works owned by company; cost to construct \$75,000, to date \$100,000; ann expenses \$3,000. Supt, C. F. Starohew.

North Springfield, Greene Co., population (see Springfield); buildings, brick and wood, 1 to 4 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of buildings occupied \$4,000; total ann expenses of department

\$500; total membership 30, volunteers, paid part time; bell alarm.*

WATER SUPPLY—Source, spring, 5 miles distant; system, pumping direct; 1 reservoir, dy cap 5,000,000 gals; 206 hydrants; pipe 40 miles, 4 to 18 in dia; 900 valves; 75 meters; pressure 60 to 100 pounds, Supt, W. C. Hornbeak.*

Odesa, Lafayette Co., population 2,500; fire area 4 blocks; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, wells.

Pacific, Franklin Co., population 1,185; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft; value of fire department equipment \$635. Chief, Chas. E. Wood.

WATER SUPPLY—Source, wells and cisterns and 3 tanks. Mayor, W. J. Dunn.

Palmira, Marion Co., population 2,515; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood 1 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose wagon and 1,000 ft of hose. Chief, I. R. Huggins.

WATER SUPPLY—Source, springs; system, gravity and pumping to standpipe; reservoir cap 250,000 gals; standpipe cap 35,000 gals; pumping engines, dy cap 2 pumps of 15,000 and 25,000 gals per hour each; 40 hydrants; pipe 4 miles, 10 to 4 in dia; 12 valves; 2 meters; pressure, domestic 35, fire 200 pounds; works owned by company. Supt, H. M. Howard.*

Paris, Monroe Co., population 1487; fire area 8 blocks; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 600 ft, cotton good 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann expenses of department \$25; total membership 60, all volunteers; bell alarm. Chief engineer, J. A. Curtright.

WATER SUPPLY—Source, wells. Mayor, James L. Wright. (Works contemplated.)

Perryville, Perry Co., population 875; fire area 60 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, hooks and ladders; hose, cotton good 600 ft, rubber inferior 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$100, volunteers; bell alarm. Chief engineer, Thos. Hoos.

WATER SUPPLY—Source, 10 large cisterns, cap 100,000 gals; cost \$50. (Waterworks will probably be built this year.)

Pierce City, Lawrence Co., population 2,511; fire area 1,200 acres; mercantile buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$3,200; value of buildings occupied \$3,000; total membership 40, volunteers; bell alarm. Chief engineer, R. E. Suze.

WATER SUPPLY—Source, lake fed by springs; system, pumping to standpipe and direct; standpipe cap 100,000 gals; pumps dy cap 1,000,000 gals; 25 hydrants; pipe 5½ miles, 4, 6 and 8 in dia; 15 valves; 170 taps; pressure domestic 66 to 70, fire 70 to 100 pounds; cost to construct \$45,450; ann expenses \$1,250. Pres, J. Guenney.

Pleasant Hill, Cam Co., population 2,217; fire area 40 acres; mercantile buildings brick; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance.*

WATER SUPPLY—Source, wells and springs. Mayor, Frank P. Neyman.*

Princeton, Mercer Co., population 1,410; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted inside fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 500 ft, rubber good 500 ft; value of fire department equipment \$1,625;

value of buildings occupied \$100; total membership 100, volunteer. Chief engineer, W. P. Sheets.*

WATER SUPPLY—Source, cisterna, cap 20,000 gals. City clerk, John Brantley.*

Rich Hill, Bates Co., population 6,000; fire area $\frac{1}{2}$ mile sq; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, inferior 400 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; total ann expenses of department \$600; total membership 10, paid full time; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, J. Y. Donaho.

WATER SUPPLY—Source, Marias des Cygnes river; system pumping direct; pumping engines, dy cap 2,000,000 gals; 50 hydrants; pipe 8 miles, 10 to 4 in dia; 21 valves; 9 meters; pressure, domestic 75, fire 125 pounds; Edson pressure recording gauge; works owned by company; cost to construct \$75,000; to date \$100,000; ann expenses \$2,300. Pres, J. P. Kelsier; supt, T. J. Kimbrough.

Rockport, Atchison Co., population 1,100; fire area 12 blocks; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 8 chemical extinguishers, 1 hose carriage; hose, cotton good 500 ft, 250 ft good rubber; value of fire department equipment \$800; membership 12, all volunteers; whistle alarm. Chief engineer, Emil Sutter.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 45,000 gals; pumping machinery, dy cap 250,000 gals; 24 hydrants; pipe 1 mile, 6 in; 2 valves; 20 taps; pressure, domestic 80, fire 120 pounds; works owned by city; cost to construct \$6,000; ann expenses \$1,000. Supt, W. R. Littell.

Rolla, Phelps Co., population 1,592; fire area 1 mile square; mercantile buildings, brick and wood, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; value of equipment \$1,000; total membership 50. Chief engineer, W. W. Flint.

WATER SUPPLY—Source, cisterns and wells.

St. Charles, St. Charles Co., population 7,000; mercantile buildings, brick, 2 stories; private, brick and wood, 3 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hook and ladder trucks, 4 hose carriages, 4 hose couplings; hose, rubber good 2,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of department \$250; total membership 120, volunteers; electric and Gamewell alarm; 9 street boxes. Chief, Herbert Hachting.*

WATER SUPPLY—Source, Missouri river; system, pump to standpipe and direct; reservoir cap 650,000 gals; pumping engines, dy cap 2,000,000 gals; 40 hydrants; pipe 7 miles, 12 to 4 in dia; 28 valves; 1 meter; settling tanks; pressure, domestic 90, fire 125 pounds; cost to construct \$80,000; ann expenses \$3,240. Supt, R. C. Pearsons.*

St. Genevieve, St. Genevieve Co., population 1,586; mercantile buildings, brick, 2 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. No fire department.

WATER SUPPLY—Source, cisterns and wells.

St. Joseph, Buchanan Co., population 58,000; fire area 10 sq miles; mercantile buildings, brick, 1 to 7 stories; private, brick and wood, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, 3 hose wagons; hose, cotton good 4,500 ft, rubber good 4,500 ft, inferior 1,200 ft; 22 horses, value \$3,000; value of fire department equipment \$25,000; value of buildings occupied \$50,000; total ann expenses of department \$45,500; total membership 44, paid full time; telephone alarm; 40 street boxes. Chief engineer, M. M. Kane. (Water tower contemplated.)

WATER SUPPLY—Source, Missouri river; system, pumping to reservoir; reservoir cap 22,000,000 gals; 4 pumping engines, dy cap 14,000,000 gals; 250 hydrants; pipe 32 miles, 4 to 24 in dia; pressure, domestic 75 to 150 pounds; works owned

by company; ann expenses \$30,000. Supt, L. C. Burnes.*

St. Louis, St. Louis Co., population 525,000; fire area 61 3-4 sq miles; mercantile buildings, brick, iron, stone and wood, 1 to 14 stories; private, stone and brick, 1 to 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—37 steam fire engines, (5 not in service) 4 chemical engines on wheels, 50 chemical extinguishers, 9 hook and ladder trucks, 4 aerial trucks, 38 hose carriages, all kinds, 8 supply wagons, 7 hose wagons, 1 Hale water tower 55 ft high; hose, cotton good 10,000 ft, inferior 1,200 ft, rubber good 50,000 ft, inferior 5,000 ft; 223 horses, value \$225 per horse; value of fire department equipment \$375,000; value of buildings occupied \$800,000; total ann expenses of department \$600,000; total membership 425, paid full time; Gamewell alarm; 682 street boxes; 32 engine companies, 9 hook and ladder companies, 3 chemical engine companies. Chief engineer, John Lindsay. (New fire engines, 1 hook and ladder contemplated.)

WATER SUPPLY—Source, Mississippi river; system, pump to reservoir through settling basin and to standpipe; reservoir cap 60,000,000 gals; 2 standpipes; pumping engines, dy cap 178,000,000 gals; 4,500 hydrants; pipe 445, miles, 3 to 48 in dia; 3,939 valves; pressure 5 to 70 pounds; 48,000 taps; Edson pressure recording gauge; works owned by city; cost to construct \$13,000,000; ann expenses \$350,000. Pres board of public works, H. E. Mc-Moth; water com, M. L. Holman.

Salisbury, Chariton Co., population 2,200; fire area 240 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted except in fire limits; no fireworks ordinance. No fire department.

WATER SUPPLY—No waterworks.

Savannah, Andrews Co., population 1,288; mercantile buildings, brick and frame, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, hooks, ladder, buckets, etc; value of fire department equipment \$600; value of buildings occupied \$1,600.*

WATER SUPPLY—Source, elevated tank. Mayor, Isaac H. Williams; city clerk, S. K. Trodsham.*

Sedalia, Pettis Co., population 14,068. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 3,000 ft, inferior 500 ft, rubber good 500 ft; 12 horses; total membership 24, paid full time 12, paid part time 12. Chief engineer, H. Willie.*

WATER SUPPLY—Source, Spring creek and Flat river; system, pumping to standpipes; 2 standpipes, cap 330,000 gals; pumping engines, dy cap 9,500,000 gals; 155 hydrants; pipe 30 miles, 4 to 15 in dia; 75 valves; 300 meters; pressure 60 to 300 pounds; Edson pressure recording gauge; waterworks owned by company; cost to construct \$400,000; ann expenses \$7,000. Supt, S. F. Roscoe. A 300,000,000 gal reservoir will be constructed during the year.*

Sheffield (see Kansas City).

Shelbina, Shelby Co., population 2,000; fire area 3 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; bell alarm. Chief engineer, J. C. York.

WATER SUPPLY—Source, 2 wells, 5 cisterna. Town clerk, Wm. Morgan.

Shelbyville, Shelby Co., population 800; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—buckets.

WATER SUPPLY—Source, wells and cisterns. City clerk, J. A. Doyle.

Slater City, Saline Co., population 3,000; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 story; wooden roofs are permitted except in business district; fireworks ordinance; causes of fire investigated. Fire department—10 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$600; total membership 12, paid full time; whistle alarm. Chief engineer, Wm. Hindle.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 45,000 gals; 8 hydrants; pipe 4 in dia; waterworks owned by city. Supt. Henry Fogas.

Springfield, Green Co., population 21,850; buildings, private, brick, 2 and 3 stories. Fire department—4 chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages; hose, rubber 2,400 ft, inferior 1,000 ft; 10 horses, value \$1,750; value of fire department equipment \$4,250; total ann expenses of department \$13,090; total membership 58, paid full time 7, paid part time 51; telephone bell alarm. Chief engineers, J. S. Smades and D. F. Ryan.*

WATER SUPPLY—Source, Little See river; system, pumping to reservoirs, tank and direct; 2 reservoirs, cap 5,500,000 gals; pumping engines, dy cap 4,500,000 gals; 206 hydrants; pipe 42 6-10 miles, 18 to 6 in dia; 150 valves; 25 meters; pressure, domestic 50, fire 80 pounds; waterworks owned by company; cost to construct \$375,107; ann expenses \$9,200. Supt. W. C. Hornbeak.*

Tarkio, Atchison Co., population 1,997; fire area 320 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted on new buildings; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; membership 20, volunteers; bell alarm. Chief engineer, W. L. Salmon.

WATER SUPPLY—Source, wells; system, pumping to standpipe, standpipe cap 50,000 gals; pumping engines, dy cap 1,000,000 gals; 18 hydrants; pipe 8 miles, 4 to 10 in dia; 9 valves; 125 taps; pressure, domestic 60, fire 200 pounds; waterworks owned by company; original cost to construct \$15,000; expenses of construction to date \$25,000; ann expenses \$822. Supt. W. F. Rankin.

Tipton, Moniteau Co., population 1,500; fire area 10 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in business blocks; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, inferior 200 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; volunteer members; bell alarm. Chief engineer, C. C. Macley.

WATER SUPPLY—Source, wells.*

Trenton, Grundy Co., population 5,039; fire area 930 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 450 ft, inferior 50 ft, rubber good 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department \$1,200; total membership 20, paid full time 1; bell alarm. Chief engineer, G. Heinemann.*

WATER SUPPLY—Source, Grand river and well; system, pumping to standpipe and direct; standpipe cap 175,000 gals; pumping engines, dy cap 2,500,000 gals; 50 hydrants; pipe 5½ miles, 6 to 12 in dia; 18 valves; 200 taps; pressure, domestic 60, fire 130 pounds; waterworks owned by company; cost to construct \$85,000; cost to date \$125,000; ann expenses \$3,000. Supt. W. W. Hubbell.

Warrensburg, Johnson Co., population 6,000; fire area 12 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft; 2 horses; volunteer members; bell alarm. Chief engineer, J. E. Morrison.

WATER SUPPLY—A system of waterworks is being put in to be completed this year.

Warrenton, Warren Co., population 664; fire area 100 acres; mercantile buildings, wood and brick, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine; hose, rubber wood 200 ft.*

WATER SUPPLY—Source, cisterns.*

Washington, Franklin Co., population 3,500; fire area 4 miles; buildings, brick, 2 to 5 stories; shingle and iron roofs used; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, cotton good 500 ft; value of equipment \$1,500; value of buildings occupied \$1,000; expenses for past year \$250; total membership 34; electric alarm; 3 street boxes. Chief, H. G. Mayn, Jr.

WATER SUPPLY—Source, Missouri river; system, pumping to standpipe through filter and to clear water reservoir; reservoir cap 400,000 gals; standpipe cap 100,000 gals; pumping engines, dy cap 2,000,000 gals; 51 hydrants; pipe 4 miles, 4 to 10 in dia; 15 valves; pressure 80 to 90 pounds; works owned by company; cost to construct \$80,000; ann expenses \$1,700. Mayor, H. D. Hibbeler.

Webb City, Jasper Co., population 5,043; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages; hose, rubber good 1,400 ft, cotton good 400 ft; value of fire department equipment \$1,250; value of buildings occupied \$10,000; 45 volunteer members; bell alarm; 2 hose companies. Chief engineer, H. Wanner.

WATER SUPPLY—Source, springs, 2½ miles distant; system, pump to standpipe; standpipe cap 250,000 gals; pumping engines, dy cap 2,500,000 gals; 140 hydrants; pipe 20 miles, 4 to 10 in dia; 47 valves; pressure, domestic 40, fire 80 to 90 pounds; 754 taps; works owned by company; cost to construct \$90,000; ann expenses \$14,107. Supt. Geo. H. Bruen.

West Plains, Howell Co., population 3,000; fire area 4 blocks; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. No fire department—bucket brigade.

WATER SUPPLY—Source, wells and cisterna. Mayor, J. C. Kerby.

Willow Springs, Howell Co., population 2,300; fire area 160 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 500 ft; value of fire department equipment \$2,000; value of department buildings \$900; total ann expense of department \$400; membership 50, all volunteers; whistle alarm. Chief, S. Snellson.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 61,770 gals; 7 hydrants; pipe 3½ miles, 4 in dia; 3 valves; 55 taps; pressure 45 pounds; works owned by city; original cost to construct \$5,000. Supt. W. Krellow.

Windsor, Henry Co., population 2,500; fire area 1 x 1¼ miles; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 6 chemical extinguishers, 1 hose carriage; hose, linen good 400 ft; value of fire department equipment \$800; value of buildings occupied \$200; total membership 30, volunteer members 30. Chief engineer, J. S. Kelley.

WATER SUPPLY—Source, large cisterna.

Places having a population of 1,000 and upward that have no fire protection: Ash Grove, Greene Co., population 1,350; Bellville Mines, Jasper Co., population 1,174; Dover, Lafayette Co., population 2,342; Glasgow, Howard Co., population 1,781 (Will put in works to cost \$8,000); Harrisonville, Cass Co., population 1,615; Marionville, Lawrence Co., population 1,159; Norborne, Carroll Co., population 1,005; Odessa, Lafayette Co., population 1,272; Polar Bluff, Butler Co., population 2,189; Richmond, Ray Co., population 2,895 (waterworks contemplated); Seneca, Newton Co., population 1,101; Thayer, Oregon Co., population 1,143; Weston, Platte Co., population 1,134.

MONTANA.

Anaconda, Deer Lodge Co., population 3,975; mercantile buildings, stone, brick and wood, 1 to 4 stories; private, brick and wood, 1 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, cotton good 3,000 ft. rubber good 2,000 ft.; value of buildings occupied \$3,000; total membership 115, paid full time 1; Gamewell alarm; 6 street boxes. Chief engineer, George Elston.

WATER SUPPLY—Source, 2 mountain streams; system, gravity; reservoir cap 8,250,000; 26 hydrants; pipe 11 1-10 miles, 10 to 2 in dia; 324 valves; pressure, domestic 100, fire 115; works owned by company; cost to construct \$100,000; ann expenses \$4,000. Supt, D. F. Hallaban.*

Billings, Yellowstone Co., population 836; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, Yellowstone river; system, pumping direct; pumping engines, dy cap 3,500,000 gals; 27 hydrants; pipe 7 1/2 miles, 10 to 4 in dia; 30 valves; 249 taps; pressure, domestic 60, fire 110 pounds; works owned by company; cost to construct \$80,000; to date \$90,000; ann expenses \$4,500. Pres, H. Belknap; supt, H. W. Rowley.

Bozeman, Galatin Co., population 3,500; fire area 400 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon, coal cart and Silby heater; hose, cotton good 2,400 ft; value of fire department equipment \$12,000; value of buildings occupied \$40,000; total ann expenses of department \$900; total membership 50, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 4 hose companies. Chief, W. G. Alexander.

WATER SUPPLY—Source, mountain streams; system, gravity; 1 reservoir, cap 1,225,000 gals; 62 hydrants; pipe 10 miles, 4 to 12 in dia; 39 valves; pressure, domestic 90 to 110 pounds, fire same; waterworks owned by company. Pres, Chas. M. Barney of New York; supt, A. E. Davidson.

Butte City, Silver Bow Co., population 18,000; fire area 2 sq miles; mercantile buildings, brick, stone and wood, 1 to 5 stories; private, brick, 1 to 3 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 chemical engines on wheels, 8 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 1 hose carriage, 2 hose wagons, 1 reel, 1 deluge set, 5 hose carts; hose, rubber good 3,000 ft. inferior 1,500 ft. cotton good 500 ft. inferior 300 ft; 8 hoses, value \$2,000; value of fire department equipment \$31,000; value of buildings occupied \$25,000; total ann expenses of department \$30,000; total membership 75, paid full time 12, volunteer members 63; Gamewell alarm; 32 street boxes. Chief marshal, A. D. Cameron.

WATER SUPPLY—Source, mountain stream; system, gravity in part then pumping direct; reservoir cap 1,000,000,000 gals; pumps, dy cap 2,000,000 gals; 153 hydrants; pipe 50 miles, 3 to 24 in dia; 2,700 taps; pressure, domestic 65 to 180, fire same pounds; waterworks owned by company; expenses of construction to date \$1,250,000. Supt, Eugene Carroll C. E.

Cascade, Cascade Co., population 150; buildings, brick and wood, 1 and 1 1/2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, flowing artesian well; system, gravity; reservoir cap 60,000 gals; 1 hydrant; pipe 4 miles; pressure, domestic 60, fire 120 pounds; cost to construct \$7,500.

Castle, Meagher Co., population 200; fire area 40 acres; mercantile buildings, wood and stone, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hooks, 4 ladders and 60 buckets, value \$250; total membership 25, volunteers; bell alarm. Captain, Geo. A. Krieger.

WATER SUPPLY—Source, Boulder creek; system, gravity; reservoir cap 17,000,000 gals; pipe 8

in dia; quality of water good; pressure, domestic 287 ft; works owned by company; cost to construct \$50; ann expenses \$15. Pres, A. M. Holter; supt, H. H. Barnes. Works not completed.

Deer Lodge City, Deer Lodge Co., population 1,478; fire area 25 acres; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft. rubber good 600 ft. inferior 600 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,600; total ann expenses of department \$280; membership 28, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, W. B. Wiles.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 218,465 gals; 18 hydrants; pipe 9 miles, 3 to 10 in dia; 36 valves; pressure 60 to 65 pounds; works owned by company; cost to construct \$30,000, to date \$60,000; ann expenses \$1,300. Pres, N. J. Bielenburg; supt, F. S. Davey.

Billon, Beaver Head Co., population 1,012; fire area 10 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, buckets. Chief engineer, Dan T. Chapman.*

WATER SUPPLY—Waterworks contemplated. Mayor, L. C. Fvleril.*

Fort Benton, Choteau Co., population 1,618; fire area 10 acres; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted subject to fire committee; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$7,000; value of buildings occupied \$2,000; total ann expenses of department \$3,000; total membership 25, volunteers; bell alarm. Chief engineer, T. J. Todd.*

WATER SUPPLY—Source, Missouri river; system, direct pumping; pumping engines, dy cap 1,000,000 gals; 26 hydrants; pipe 6 miles; 4 valves; 150 taps; pressure, domestic 40, fire 100 pounds; waterworks owned by company; cost to construct \$52,000; ann expenses \$3,000. Supt, Geo. M. Ullrich.

Fort Keogh, Custer Co., population 614; fire area 300 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 1 1/2 stories; wooden roofs permitted; military fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 600 ft. rubber 150 ft. Post quartermaster, Robt. N. Getty.

WATER SUPPLY—Source, Yellowstone river; system, direct pumping; 1 reservoir, cap 10,800 gals; 9 cisterns, cap 95,000 gals; pumping engines, dy cap 500,000 gals; 13 hydrants; pipe 2 1/2 miles, 4 and 6 in dia; pressure, domestic 40, fire 90 to 150 pounds; waterworks owned by U. S. Government. Supt, Robt. N. Getty.

Glendale, Beaverhead Co., population 371; fire area 250 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hose carriages; hose, rubber good 1,000 ft. inferior 500 ft. linen good 300 ft; bell alarm.*

WATER SUPPLY—Source, Trapper creek; system, gravity; 24 hydrants; pipe 1/2 mile, flume 140 ft fall. Clerk, E. Harrison.*

Granite, Deer Lodge Co., population 1,310; fire area 10 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; shingle roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, 1 hose wagon, hooks, ladders and buckets; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$100; total ann expenses of department \$110; membership 100, volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Thomas Trevaile.

WATER SUPPLY—Source, Fred Burr lakes; system, gravity; cap of tanks 200,000 gals; 10 hydrants; pipe 3, 4 and 6 in dia; quality of water pure; pressure 60 pounds; works owned by com-

pany; cost to construct \$30,000. Pres, Wm. D. Dodds.*

Great Falls, Cascade Co., population 12,000; fire area 1,800 acres; fire limits 2,300 ft x 2,300 ft; mercantile buildings, stone, brick and some wood, 3 stories; private, wood and brick, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, all kinds, 1 hose wagon; hose, cotton good 3,500 ft, rubber good 1,300 ft, inferior 150 ft; 2 horses, value \$500; value of fire department equipment \$10,000; value of buildings occupied \$4,000; total ann expenses of department \$8,075; total membership 65, paid full time 5, volunteer members 60; Gamewell alarm; 10 street boxes; 1 hook and ladder company, 6 hose companies. Chief engineer, James Burns.

WATER SUPPLY—Source, Missouri river; system, pumping direct; pumping engines, dy cap 3,500,000 gals; hydrants 247; pipe 24 7-10 miles, 4 to 14 in dia; 64 valves; taps 187; galv iron service pipe used; pressure, domestic 95, fire 125 pounds; waterworks owned by company; original cost to construct \$87,500; expenses of construction to date \$300,000; ann expenses \$12,000; int on bonds \$7,930. Pres of com, L. G. Phelps; supt, secy and treas, E. W. King.

Helema, Lewis and Clarke Co., population 14,000; fire area 250 acres; buildings, brick, stone and wood, 1 to 5 stories; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 1 chemical engine, 5 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 6 hose carriages, 1 hose wagon, slamese couplings used; hose, cotton good 4,500 ft, rubber good 2,400 ft, inferior 850 ft; 10 horses, value \$1,800; value of fire department equipment \$18,000; value of buildings occupied \$16,000; total ann expenses of department \$9,000; total membership 54, paid full time 9, remainder paid part time 20; Gamewell alarm; 34 street boxes. Chief engineer, C. F. McKinnon.

WATER SUPPLY—Source, springs and 10 miles creek; system, gravity; 2 reservoirs of 5,000,000 gals each in city; reservoir 100,000,000 gals in mts; 275 hydrants; pipe 65 miles, 20 to 6 in dia; 300 valves; 310 meters; 4,200 taps; pressure 75 to 100 pounds; waterworks owned by company; cost to construct \$1,500,000; ann expenses \$14,000; int on bonds \$63,000. Supt, Frank J. Stever.

Kaliapel, Flathead Co., population 2,500; fire area 220 acres; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,400 ft; value of fire department equipment \$2,800; value of buildings occupied \$2,500; total ann expenses of department \$3,300; total membership 44, paid full time; bell alarm. Chief engineer, J. B. Gibson.

WATER SUPPLY—Source, river and wells; system, pumping to standpipe and direct; standpipe 16 x 120 ft; pumping engines, dy cap 1,000,000 gals each; 70 hydrants; pipe 6 miles, 4 to 10 in dia; 23 valves; pressure, domestic 65, fire 120 pounds; waterworks owned by company; cost to construct to date \$150,000; ann expenses \$5,500. Supt, W. B. Green.

Livingston, Gallatin Co., population 4,000; fire area 12 blocks; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 3,000 ft; 1 horse, value \$200; value of fire department equipment \$3,000; value of buildings occupied \$1,000; membership 9, paid full time 1. City marshal, Wm. Marshall.

WATER SUPPLY—Source, Yellowstone river; system, pumping to reservoir, cap 4,000,000 gals; pumping engines, dy cap 11,000,000 gals; hydrants 49; pipe 6 miles, 13 to 4 in dia; 30 valves; 350 taps; pressure, domestic 80, fire 140 pounds; works owned by company; cost to construct \$70,000; ann expenses \$10,000. Pres, W. J. Anderson; supt, E. C. Rosa.

Miles City, Custer Co., population 956; fire area 52 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—1 hook and ladder truck; hose, rubber good 1,000 ft; value of fire department equipment \$300; total membership 25, volunteers; gun alarm. Chief engineer, Louis King.*

WATER SUPPLY—Source, wells; system, pump direct; pumping engines, dy cap 1,000,000 gals; hydrants 27; pipe 4 miles, 1 to 8 in dia; valves 8; pressure, domestic 30, fire 110 to 150 pounds; works owned by company; cost to construct \$18,000, to date \$30,000. Supt, B. Ullman.

Missoula, Missoula Co., population 3,426; fire area 175 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, linen good 3,000 ft; 3 horses, value \$700; value of fire department equipment \$8,000; value of buildings occupied \$12,000; total ann expenses of department \$2,000; total membership 38, volunteers, paid full time 1; whistle alarm; 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, J. R. Hejline.*

WATER SUPPLY—Source, Rattlesnake creek; system, gravity; reservoir cap 125,000 gals; 48 hydrants; pipe 10 miles, 2 to 12 in dia; 100 valves; pressure 65 pounds; 800 taps; waterworks owned by company; cost to construct \$150,000; ann expenses \$4,000. Supt, Alfred Cave.

Neihart, Meagher Co., population 1,500; fire area 1,000 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roof are permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages, all kinds, 2 extension ladders; hose, rubber good 1,000 ft; value of fire department equipment \$1,600; value of buildings occupied \$300; total ann expenses of department \$100; total membership 42, volunteers; bell alarm. Chief engineer, Chas. Crawford.

WATER SUPPLY—Source, creek; system, gravity; hydrants 35; pipe 2 miles, 13 in dia; 5 valves; quality of water spring; pressure 35 to 130 pounds; waterworks owned by company; original cost to construct \$45,000; ann expenses \$1,000. Pres, Thomas E. Brady.

Phillipsburg, Deer Lodge Co., population 2,000; fire area 4 blocks; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 400 ft, inferior 100 ft; membership 32, volunteers; bell alarm; 1 fire company. Chief, Dr. S. A. Brown.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 149,928 gals; 15 hydrants; pipe 4 miles, 8 to 1 in dia; 6 valves; pressure 75 to 175 pounds; waterworks owned by company; cost to construct \$37,000; ann expenses \$200. Supt, Jno. Kaiser.

Walkerville, Silver Bow Co., population 1,743; fire department—1 hose carriage; hose, cotton good 1,000 ft; total membership 27, volunteers.

WATER SUPPLY—Source, springs; system, gravity; 3 reservoirs, cap 8,717,000 gals; mains 4 to 6 in dia; pressure 75 to 110 pounds.

NEBRASKA.

Ainsworth, Brown Co., population 733; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. No fire department.*

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 41,000 gals; pumping engines, dy cap 400,000 gals; 10 hydrants; pipe 1½ miles, 6 to 8 in dia; quality of water good; pressure, domestic 40, fire 150 pounds; works owned by village. Cost to construct \$9,000.*

Albion, Boone Co., population 1,000; fire area 1 mile sq; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$150; total ann expenses of department \$300; total membership 50, volunteers; bell alarm. Chief engineer, Fred McElliot.

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 55,000 gals; pumping engines, dy cap 575,000; 10 hydrants; pipe 2 miles, 4 and 6 in dia; pressure, domestic 60, fire 120 pounds; waterworks owned by town; cost to construct \$9,000; ann expenses \$200. Supt, E. M. Morehead.

Alliance, Boxbutte Co., population 1,600; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—120 gal chemical extinguisher, 1 hook and ladder truck; value of fire department equipment \$550; value of buildings occupied \$250; total membership 20, all volunteers. Chief engineer, John Seaton. (Contemplated, 1 hose cart and hose.)

WATER SUPPLY—Source, wells. (Will put in a system to cost \$17,000 this year.) Mayor, F. W. Smith.

Ashland, Saunders Co., population 1,601; fire area 2 miles; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; total membership 60, volunteers; bell alarm. Chief engineer, John H. Granger.

WATER SUPPLY—Source, wells; system, pump to reservoir, cap 65,000 gals; pumping engines, dy cap 576,000 gals; 28 hydrants; pipe 4½ miles, 4, 6 and 8 in dia; 15 valves; pressure 50 pounds; works owned by city; cost to construct \$18,000; ann expenses \$1,400; int on bonds 6 per cent. Supt, L. E. Snell.*

Atkinson, Holt Co., population 701; fire area 4 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 250 ft, rubber good 500 ft; value of fire department equipment \$1,325; value of buildings occupied \$200; total ann expenses of department \$291.90; total membership 24, volunteers; bell alarm; 1 fire company. Chief, O. H. Walrath.

WATER SUPPLY—Source, Godfrey system of wells; system, pumping to standpipe; standpipe cap 44,000 gals; pumping engines, dy cap 500,000 gals; 8 hydrants; pipe ¾ mile, 8 to 4 in dia; 5 valves; 26 taps; pressure, domestic 30, fire 100 pounds; works owned by village; cost to construct \$7,000. Supt, A. D. Havens.

Auburn, Nemah Co., population 2,500; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. No organized fire department—1 hook and ladder truck, 1 doz buckets.

WATER SUPPLY—Will put in waterworks to cost \$17,000. Chairman of com, D. E. C. Long.

Aurora, Hamilton Co., population 2,000; mercantile buildings, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriage; hose, linen good 350 ft, rubber good 800 ft; total membership 45, volunteers; bell and whistle alarm; 1 hook and ladder company, 2 hose companies. Chief, L. W. Shuman.

WATER SUPPLY—Source, wells; system, pumping to reservoir, standpipe and direct; reservoir cap 93,000 gals; standpipe cap 63,000 gals; 2 pumping engines, dy cap 750,000 gals, and 450,000 gals; 30 hydrants; pipe 4½ miles, 4 to 10 in dia; 19 valves; pressure, domestic 40, fire 100 pounds; waterworks owned by city; cost to construct \$32,000; int on bonds 6 per cent. Supt, H. G. Cass.*

Beatrice, Gage Co., population 16,000; fire area 1,000 acres; mercantile buildings, stone and brick, 2, 3 and 4 stories; private, stone, brick and wood 1, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 2,500 ft, rubber good 1,000 ft; value of fire department equipment \$7,000; total ann expenses of department \$700; total membership 150, volunteers; telephone, bell and whistle alarm; 5 fire companies, 1 engine company, 1 hook and ladder company, 5 hose companies. Chief engineer, John L. Schiek.

WATER SUPPLY—Source, Big Blue river and

Godfrey well system; system, direct; pumping engines, dy cap 5,000,000 gals; 121 hydrants; pipe 18 miles, 4 to 18 in dia; 100 valves; 700 taps; pressure, domestic 60, fire 125 pounds; waterworks owned by city; cost to construct \$30,000, to date \$135,000; ann expenses \$3,800. Supt, Geo. E. Hawkins.

Blair, Gage Co., population 3,000; fire area 240 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft, inferior 1,000 ft; value of fire department equipment \$1,300; value of buildings occupied \$1,800; total membership 50, volunteers; bell and electric alarm; 4 boxes; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. Sutherland.

WATER SUPPLY—Source, wells; system, pump to reservoir, cap 600,000 gals; pumping engines, dy cap 800,000 gals; 29 hydrants; pipe 4 miles, 4, 6 and 8 in dia; 9 valves; 8 meters; pressure, domestic 110, fire 200 pounds; works owned by city; cost to construct \$20,000; ann expenses \$2,000. Pres of com, William Kelley.*

Blue Hill, Webster Co., population 796; fire area 280 acres; mercantile buildings, brick, 1 story; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$1,800; value of buildings occupied \$600; membership 34, volunteers; bell alarm. Chief engineer, E. Bishop.

WATER SUPPLY—Source, well; system, pumping to standpipe; cap 93,000 gals; dy cap of pumps 30,000 gals; 19 hydrants; 1½ miles of pipe 8 to 4 in dia; 12 valves; 60 taps; pressure 45 pounds; works owned by city; cost to construct \$10,000; cost to date \$12,500; ann expenses \$1,000. Supt, G. E. Conrad.

Broken Bow, Custer Co., population 2,000; fire area 4 blocks; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft; value of fire department equipment \$1,250; value of buildings occupied (owned by city and leased) \$400; total membership 20, volunteers; 1 hose company. Foreman, J. J. Orabla.

WATER SUPPLY—Source, wells, system, pump to reservoir, cap 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 43 hydrants; pipe 4½ miles, 4 to 10 in dia; 200 taps; pressure, domestic 50, fire 100 pounds; waterworks owned by company; cost to construct to date \$43,000; ann expenses \$4,000. Pres, John Reese; supt, Frank H. Young.

Central City, Merreck Co., population 2,000; fire area 6 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft; value of fire department equipment \$2,200; value of buildings occupied \$500; ann expenses \$225; total membership 40, volunteers; bell alarm. Chief engineer, J. W. Porter.

WATER SUPPLY—Source, 16 wells; system, pumping to standpipe and direct; standpipe cap 100,000 gals; pumping engines, dy cap 1,000,000 gals; 31 hydrants; pipe 3½ miles; 10 valves; 100 taps; pressure, domestic 60, fire 125 pounds; works owned by village; cost to construct \$30,000; cost to date \$35,000; ann expenses \$1,000. Supt, N. H. Baldwin.

Chadron, Dawes Co., population 3,100; fire area 6 blocks; mercantile buildings, brick, stone and wood, 1 to 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine (not in use), 1 hook and ladder truck, 3 hose carts; hose, cotton good 1,800 ft, inferior 100 ft, rubber good 500 ft; value of buildings occupied \$3,400; value of department \$500; total membership 25, paid full time 1, paid part time 24; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, L. A. Dorrington.

WATER SUPPLY—Source, Chadron creek system, gravity; reservoir cap 500,000 gals; pumping engines, dy cap 500,000 gals; 34 hydrants; pipe 11 miles, 4 to 8 in dia; 27 valves; pressure 100 pounds; waterworks owned by city; cost to construct \$45,000.

000; cost to date \$70,000; ann expenses \$1,250. Com. James Boyd; supt. P. C. Poll.*

Columbus, Platte Co., population 3,500; mercantile buildings, brick, and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,800 ft, inferior 40 ft, cotton good 600 ft; value of fire department equipment \$3,500; value of buildings occupied \$800; total membership 85, volunteers; bell alarm. Chief engineer, Louis Schwarz.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe and direct; standpipe cap 84,000 gals; pumping engines, dy cap 2,000,000 gals; 40 hydrants; pipe 6 miles, 10, 8, 6, 4 in dia; 27 valves; 150 taps; pressure, domestic 40, fire 100 pounds; works owned by city; cost to construct \$35,000; cost to date \$38,000; ann expenses \$2,000. Supt. C. Schroeder.

Crawford, Daws Co., population 1,400; fire area 80 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total membership 35, volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, George Uhl.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 300,000 gals; 15 hydrants; pipe 3½ miles, 8 in dia; 100 taps; pressure, domestic 75 pounds, fire same; waterworks owned by city; original cost to construct \$30,000; ann expenses \$50. L. Van Voorhis, water commissioner.

Crete, Saline Co., population 2,310; fire area 6 blocks; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hose cart; hose, rubber good 700 ft; value of fire department \$1,000; value of buildings occupied \$100; total ann expenses \$125; total membership 21, volunteers; bell alarm. Foreman, C. E. Beavers.*

WATER SUPPLY—Source, creek system of wells; system, pumping to reservoir; reservoir cap 1,050,000 gals; pumping engines, dy cap 1,000,000 gals; 51 hydrants; pipe 5 miles, 4 to 10 in dia; 23 valves; 300 taps; pressure, domestic 65, fire 65 to 125 pounds; waterworks owned by city; cost to construct \$55,000; ann expenses \$1,340. Supt. S. H. Swayne.

Culbertson, Hitchcock Co., population 460; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; bell alarm.*

WATER SUPPLY—Source, 2 tube wells; system, pumping to tank; cap 95,000 gals; hydrants 8; pipe 1 mile, 4 to 6 in dia; works owned by village; cost to construct \$6,500. Pres. S. E. Solomon; supt. W. D. Wildman.*

David City, Butler Co., population 2,028; fire area 500 acres; buildings, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$50; total membership 75, volunteers. Chief engineer, John R. Townsend.*

WATER SUPPLY—Source, 2 Cook wells; system, pumping to standpipe; standpipe cap 85,000 gals; pumping engines, dy cap 200,000 gals; 26 hydrants; pipe 4 miles; 25 valves; 95 taps; pressure, domestic 40, fire 100 pounds; waterworks owned by city; cost to construct \$23,000; to date \$27,000; ann expenses \$1,500. int on bonds 5 per cent. Supt. A. J. West.

Edgar, Clay Co., population 1,600; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 350 ft, poor 150 ft;

membership 22, volunteers; bell alarm. Chief engineer, Geo. Ula.

WATER SUPPLY—Source, well; system, pumping to standpipe; hydrants 14; pipe 1 mile; 1 meter; quality of water good; waterworks owned by city; original cost to construct \$14,000; int on bonds 6 per cent. Supt. Thos. Harrison.

Fairbury, Jefferson Co., population 4,500; fire area 1 sq mile; mercantile buildings, iron, brick and stone, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, hand grenades; hose, rubber good 900 ft, inferior 100 ft, cotton good 200 ft; value of fire department equipment \$2,200; value of buildings occupied \$5,000; membership 50; telephone alarm. Chief engineer, E. E. Howell.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; pumping engines, dy cap 3,000,000 gals; 33 hydrants; pipe 6 miles, 4 to 10 in dia; 28 valves; 23 meters; pressure, domestic 70, fire 125 pounds; cost to construct \$40,000; ann expenses \$2,700. Supt. E. D. Russell.*

Fairfield, Clay Co., population 2,000; fire area 10 or 12 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 4 or 5 chemical extinguishers, 1 hose carriage, hand grenades; hose, rubber good 600 ft; value of fire department equipment \$1,600; buildings occupied are rented; total ann expenses of department \$200; total membership 33; paid part time 1, volunteers 32; bell alarm; new fire department buildings contemplated. Chief engineer, K. I. Willis.

WATER SUPPLY—Source, cisterns; cap nearly 400 bbls each; cost to construct \$700; ann expenses \$40. Supt. K. I. Willis.

Fairmont, Fillmore Co., population 1,000; fire area 10 acres; mercantile buildings, brick and wood, 1½ and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 800 ft, inferior 100 ft; value of department equipment \$1,500; value of buildings \$100; total membership 30, volunteers. Chief engineer, Joseph Brenckle.

WATER SUPPLY—Source, wells; system, pumping to tank; cap 2,500 bbls; 15 hydrants; pipe 1,500 ft, 6 and 4 in; 2 valves; pressure 40 pounds.

Fall City, Richardson Co., population estimated 3,000; fire area 5 acres; mercantile buildings, brick and stone, 1 to 3 stories; private, wood and brick, 1 and 2 stories; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; 1,000 ft cotton hose; value of fire department equipment \$1,000; value of buildings occupied \$300; total membership 50, volunteers. Chief engineer, L. P. Husten.

WATER SUPPLY—Source, wells; system, pumping to reservoir; standpipe and direct; reservoir cap 180,000 gals; standpipe cap 85,000 gals; pumping engines, dy cap 1,000,000 gals; 35 double hydrants; pipe 3½ miles, 4 to 8 in dia; 11 valves; pressure, domestic 60, fire 150 to 100 pounds; waterworks owned by city; cost to construct \$34,000; ann expenses \$4,000. Supt. A. E. Gautt.

Fremont, Dodge Co., population 6,747; fire area 250 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,800 ft, inferior 300 ft, cotton good 750 ft; value of fire department equipment \$5,000; value of 2 buildings occupied \$10,000; total membership 143, volunteers; electric alarm; 10 street boxes. Chief engineer, F. E. Cummings.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; cap 170,000 gals; pumping engines, dy cap 2,250,000 gals; 86 hydrants; pipe 15 miles, 4 to 8 in dia; 81 valves; 450 taps; pressure, domestic 45, fire 120 pounds; waterworks owned by city; cost to construct \$85,000; ann expenses \$2,800. Commissioner, Fred Biles.

Friend, Salem Co., population 2,000; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire in-

vestigated. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of department \$200; total membership 50, volunteers; bell alarm. Chief engineer, Frank Seibert.

WATER SUPPLY—Not reported.

Geneva, Filmore Co., population 2,000; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—2 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$100; total ann expenses of department \$85; total membership 17, volunteers; bell alarm; 2 hose companies. Foreman, H. F. Mohrman.

WATER SUPPLY—Source, 2 Cook wells; system pumping to standpipe; 23 hydrants; pipe 3 miles; cost to construct \$25,000. City clerk, J. D. Hamilton.*

Gemona, Nance Co., population 793; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine.*

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 100,000 gals; 11 hydrants; pipe 1.20 miles; quality of water good; pressure 75 pounds; works owned by city; cost to construct \$9,000; ann expenses \$350; int on bonds 7 per cent. Commissioner, M. V. Moody.*

Gibbon, Buffalo Co., population 646; fire area 1-4 x 1-4 mile; mercantile buildings, wood, 2 stories; private, wood, 10 to 14 ft; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 25 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$500; ann expenses \$200; total membership 88, volunteers; bell alarm; 3 fire companies, 1 engine company, 1 hose company, 1 hook and ladder company. Chief engineer, L. J. Babcock.

WATER SUPPLY—Wells proposed. City clerk, I. A. Kirk.*

Grand Island, Hall Co., population 7,536; fire area 1,000 acres; mercantile buildings, brick, iron and wood, 2 to 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 5 hose carriages; hose, rubber good 5,000 ft, inferior 2,000 ft; value of fire department equipment \$12,000; value of buildings occupied \$10,000; total ann expenses of department \$2,500; total membership 150, volunteers; electric alarm; 9 street boxes; 5 fire companies; 1 hook and ladder company, 4 hose companies. Chief engineer, Peter Heintz.*

WATER SUPPLY—Source from 2-inch drive wells; system, pumping to standpipe and direct; standpipe cap 85,000 gals; pumping engines, dry cap 1,000,000 gals each; 72 hydrants; pipe 18 miles, 4 to 10 in dia; 46 valves; 12 meters; 484 taps; pressure, domestic 45, fire 125 pounds; works owned by city; cost to construct \$70,000; ann expenses \$500. Supt, A. H. Witthelm.*

Grant, Perkins Co., population 450; fire area 1/2 sq mile; mercantile buildings, wood, 1 and 1 1/2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of apparatus \$500; value of fire department buildings \$100; ann expenses \$50; 14 volunteer members; bell alarm. Chief engineer, H. D. Alford.

WATER SUPPLY—Source, well; system, pumping to standpipe and direct; reservoir cap 50,000 gals; standpipe cap 98,000 gals; pumps, dry cap 250,000 gals; 15 hydrants; pipe 3 miles, 4 in dia; 10 valves; 78 taps; pressure, domestic 40, fire 80 pounds; works owned by company; cost to construct \$20,000. Supt, F. W. Scofield.

Harvard, Clay Co., population 1,200; fire area 8 blocks; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,100 ft, poor 100 ft; value of fire department equipment \$2,500; value

of buildings occupied \$400; total membership 60, volunteers; bell alarm; 2 fire companies. Chief engineer, C. D. Moore.

WATER SUPPLY—Source, tank.

Hastings, Adams Co., population 14,000; fire area 2 miles sq; fire limits 4x8 blocks; mercantile buildings, brick, stone and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage, 3 hose wagons; hose, rubber good 2,400 ft, inferior 600 ft; 3 horses, value \$900; value of fire department equipment \$5,500; value of buildings occupied \$7,000; total ann expenses of department \$4,000; total membership 25, paid full time 4, paid part time 21; telephone alarm. Chief engineer, Jno. W. Houseman.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 250,000 gals; pumping engines; 100 hydrants; pipe 25 miles, 4 to 20 in dia; 2 meters; 1,000 taps; pressure, domestic 62 pounds; waterworks owned city; original cost to construct \$115,000; ann expenses \$12,000. Chairman of com, M. L. McWhinney.

Hebron, Thayer Co., population 1,600; fire area 100 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, hose, rubber good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$200; total ann expenses of department \$50; total membership 50, volunteers; bell and whistle alarm; 2 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, W. D. Lalbrauth.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 84,000 gals; pumping engines, dry cap 1,000,000 gals; 34 hydrants; pipe 2 1/2 miles; quality of water good; pressure, domestic 60, fire 125 pounds; works owned by city; cost to construct \$25,000. Chairman of com, W. D. Lalbrauth.*

Heldrege, Phelps Co., population 3,000; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of department \$50; total membership 58, volunteers; bell alarm. Chief engineer, J. E. Austin.*

WATER SUPPLY—Source, wells; system, pumping to reservoir, standpipe and direct; 58 hydrants; pipe 4 miles.*

Hooper, Dodge Co., population 900; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 800 ft; value of fire department equipment \$1,600; value of buildings occupied \$1,000; total ann expenses of department \$100; total membership 56, volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, Fred F. Hain.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 35,000 gals; pumping engines, dry cap 10,000 gals; 10 hydrants; pipe 1 mile, 6 and 4 in dia; 6 valves; 40 taps; pressure, domestic 52, fire 100 pounds; waterworks owned by city; original cost to construct \$5,400; expenses of construction to date \$54,000; ann expenses \$400. Chairman of com and mayor, E. W. Rankin.*

Humboldt, Richardson Co., population 2000; fire area 12 blocks sq; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 400 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; total membership 30, volunteers; bell alarm. Chief engineer, Jas. B. Davis.

WATER SUPPLY—Source, wells and cisterns; waterworks contemplated. Mayor, O. A. Cooper.

Indianola, Red Willow Co., population 1,100; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs

are permitted; fireworks ordinance. No fire department, but subject is being agitated.

WATER SUPPLY—Waterworks contemplated.

Kearney, Buffalo Co., population 8,074; fire area 3,250 acres; mercantile buildings, stone and brick, 2 to 5 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,800 ft; 2 horses, value \$400; value of fire department equipment \$5,800; value of buildings occupied \$25,000; total ann expenses of department \$1,500; total membership 160; Gamewell alarm; 10 street boxes. Chief engineer, John Wilson.

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 148 hydrants; pipe 22 miles, 14 to 6 in dia; 23 valves; 26 meters; pressure, domestic 35, fire 90 to 100 pounds; waterworks owned by company. Pres. J. H. Purdy; supt, J. R. Ellis.*

Lexington, Dawson Co., population 1,800; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; total membership 45, volunteers; bell and whistle alarm. Chief engineer, W. Hamilton.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 500,000 gals; 37 hydrants; pipe 4½ miles, 10, 6 and 4 in dia; 12 valves; pressure, domestic 50, fire 125 pounds; works owned by city; original cost to construct \$35,000; expenses of construction to date \$25,000; ann expenses \$2,000. Supt, Joseph Mutchie.*

Lincoln, Lancaster Co., population 61,000; fire area 198 acres; mercantile buildings, brick and stone, 3 to 7 stories; private, wood and brick, 1 to 2½ stories; wooden roofs not permitted; stringent fireworks ordinance. Fire department—2 steam fire engines, 2 double-tank chemical engines on wheels, 8 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, 1 hose wagon, 1 supply wagon; hose, cotton good 7,000 ft, poor 2,000 ft, rubber poor 1,000 ft; 17 horses, value \$3,400; value of fire department equipment \$27,900; value of buildings and real estate \$45,000; total ann expenses of department \$39,000; total membership 27, paid full time; New Gaylor alarm system, 40 street boxes; 2 steam fire engine companies, 2 chemical engine companies, 1 hook and ladder company, 3 hose companies. Chief engineer, Robert Malone. (Proposed additions: 2,000 ft hose, chemical combination hose wagon and steamer.)

WATER SUPPLY—Source, 2 wells; system, pumping to standpipe and direct; standpipe cap 500,000 gals; pumping engines, dy cap 3,000,000 gals; 336 hydrants; pipe 40 miles, 4 to 16 in dia; 210 valves; 2,700 taps; pressure, domestic 45, fire 125 pounds, works owned by city; cost to construct \$300,000; ann expenses \$35,000. Supt, J. W. Percival.

Long Pine, Brown Co., population 750; fire area 100 acres; buildings, brick and wood, 1 and 2 stories; shingle roofs principally; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 500 ft; value of equipment \$2,500; value of buildings occupied \$250; volunteer members 25. Chief, D. O. Vaughn.

WATER SUPPLY—Source, Silver springs; system, pump to tank; cap 70,000 gals; pipe 2½ miles, 6 and 4 in dia; hydrants 12; works owned by city; cost to construct \$10,000; cost to date \$12,000; ann expenses \$1,000. Supt, D. O. Vaughn.

Loup City, Sherman Co., population 900; fire area 40 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ and 2½ stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft, poor 200 ft; value of department equipment \$1,400; value of buildings occupied \$300; membership 25, volunteers; bell alarm. Chief, C. L. Drake.

WATER SUPPLY—Source, 3 driven wells; system, pump to reservoir and direct; dy cap 300,000 gals; pipe 2 miles; hydrants 13; pressure 40 to 100 pounds; cost to construct \$12,000.*

McCook, Red Willow Co., population 3,000; fire area 15 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories, wooden roofs not permitted in fire limits. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, rubber good 1,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total membership 50, volunteers; electric bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, J. H. Dwyer.*

WATER SUPPLY—Source, 5 wells; system, pumping to standpipe, cap 275,000 gals; pumping engines, dy cap 1,000,000 gals; 30 hydrants; pipe 10½ miles, 3 to 12 in dia; 47 gates; 361 taps; pressure 40 to 200 pounds. Supt, C. H. Meeker.

Madison, Madison Co., population 2,346; fire area 168 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 650 ft, rubber inferior 200 ft, value of equipment \$1,000; value of buildings occupied \$500; total membership 36, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, James W. Maguinness.

WATER SUPPLY—Source, wells; system, pump to reservoir; dy cap 65,000 gals; pumping engines, cap 10,000 gals per hour; 23 hydrants; pipe 2½ miles, 4, 6, 8 in dia; 17 valves; 135 taps; pressure, domestic 45, fire 55 pounds; waterworks owned by city; cost to construct \$13,500; ann expenses \$1,800. Supt, J. G. Cleveland.

Mason City, Custer Co., population 450; fire area 160 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 300 ft. Chief, H. L. Crosby.

WATER SUPPLY—Source, driven wells; system, pumping direct and to tanks; cap 36,000 gals; 6 hydrants; pipe 15,000 ft; 25 taps; works owned by village; cost to construct \$2,000. Supt, H. L. Crosby.

Mindeu, Kearney Co., population 2,500; fire area 320 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$100; total membership 51, volunteers; whistle alarm; fire companies 3. Chief engineer, Geo. Harding.

WATER SUPPLY—Source, wells; system, pump to standpipe, cap 93,000 gals; pumping engines, dy cap 30,000 gals; 54 hydrants; pipe 4½ miles, 4, 6 and 8 in dia; 28 valves; 275 taps; pressure, domestic 50, fire 120 pounds; waterworks owned by city; cost to construct \$25,000; ann expenses \$1,250. Supt, Jas. Robison.

Nebraska City, Otoe Co., population 11,494; fire area 700 acres; buildings, brick, 1 to 4 stories; causes of fire investigated. Fire department—1 steam fire engine, 10 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; alarm bells couplings used; hose, rubber good 3,200 ft; 3 horses; value of fire department equipment \$12,500; total ann expenses of department \$4,000; total membership 75, paid full time 5, paid part time 10, volunteers 60. Chief engineer, M. Bauer.*

WATER SUPPLY—Source, Missouri river; system, pumping to standpipe through settling basin and filter; standpipe cap 100,000 gals; reservoir cap 200,000 gals; pumping engines, dy cap 800,000 gals; 81 hydrants; pipe 9 miles, 4 to 12 in dia; 65 valves; 40 meters; pressure, domestic 100, fire 160 pounds; waterworks owned by company; cost to construct \$180,000; ann expenses \$8,000. Manager, D. P. Rolfe.

Nelligh, Antelope Co., population 1,800; fire area 400 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hook and ladder trucks, 2 hose carts; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,000; total ann expenses of department \$250; total membership 30, paid part time; bell alarm. Chief engineer, G. Egbert.

WATER SUPPLY—Source, Elkhorn river; sys

tem, pump to tank, cap 55,000 gals; pumping engines, dy cap 250,000 gals; 33 hydrants, pipe 4½ miles, 3, 4 and 6 in dia; 13 valves; 20 meters; pressure, domestic 75, fire same pounds; water-works owned by city; cost to construct \$17,500; ann expenses \$1,250. Supt, A. E. Barnum.*

Norfolk, Madison Co., population 4,500; fire area 4 miles sq; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 2,400 ft; value of fire department equipment \$5,000; value of buildings occupied \$4,500; ann expenses \$350; total membership 140, volunteers; bell alarm; 5 fire companies. Chief engineer, C. E. Doughty.*

WATER SUPPLY—Source, artesian wells and Elkhorn river when necessary; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 2,000,000 gals; 77 hydrants; pipe 7 miles, 4 to 12 in dia; 25 valves; 170 taps; pressure, domestic 75 to 80 pounds fire same; waterworks owned by city; cost \$40,000, to city, to construct \$70,000; ann expenses \$1,600. Supt, C. C. Voohees.

North Bend, Dodge Co., population 1300; fire area ½ x 1 mile; buildings, brick and wood, 1 and 2 stories. Fire department—1 horse-power engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 600 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,500; total membership 50, volunteers; bell alarm. Chief engineer, Chas. A. Hunt.

WATER SUPPLY—Source, cisterns.

North Platte, Lincoln Co., population 3,055; fire area 1 mile sq; buildings, wood and brick, 1 and 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,600 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,500; total ann expenses of department \$300; total membership 90, volunteers; bell and electric alarm; 4 street boxes. Chief, John McCabe.*

WATER SUPPLY—Source, driven wells and North Platte river; system, direct pumping; pumping engines, dy cap 2,000,000 gals; 45 hydrants; pipe 4½ miles, 4 to 12 in dia; waterworks owned by company. Pres of com, J. H. Purdy; supt, A. S. Barnes.*

Omaha, Douglas Co., population 150,000; fire area 16,000 acres; mercantile buildings, brick and stone, 3 to 10 stories; private, brick and wood, 2 to 5 stories; fireworks ordinance; wooden roofs permitted outside of fire limits. Fire department—4 steam fire engines, 3 chemical engines on wheels, 25 chemical extinguishers, 3 hook and ladder trucks, 2 aerial trucks, 5 hose carriages, 6 hose wagons, siamese couplings used, 1 hose carriage and chemical combined; hose, rubber good 13,500 ft, cotton good 4,550 ft; 49 horses, value \$9,000; value of fire department equipment \$125,000; value of buildings occupied \$125,000; total ann expenses of department \$119,372; total membership 150, paid full time; telegraph and telephone alarm; 90 street boxes. Chief engineer, J. J. Galligan.

WATER SUPPLY—Source, Missouri river; system, pumping to reservoir through settling basin and pumping direct for high district; reservoir cap 10,000,000 gals; pumping engines, dy cap 32,000,000 gals; 1,570 hydrants; pipe 17½ miles, to 48 in dia; 1,300 valves; 8,400 taps; pressure 65 to 140 pounds; Edison pressure recording gauge; works owned by American Waterworks Co. Receivers, A. B. Hunt & E. L. Bierbower.

O'Neill, Holt Co., population 1,500; fire area 640 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 200 ft, cotton good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$300; total membership 50, volunteers; bell alarm; 4 fire companies. Chief engineer, A. F. Biglin.

WATER SUPPLY—Source, wells; system, pump to standpipe; cap 59,000 gals; pumping engines, dy cap 600,000; 17 hydrants; pipe 3½ miles, 8, 6

and 4 in dia; 80 taps; 14 valves; pressure 50 to 100 pounds; works owned by city; cost to construct to date \$20,000; ann expenses \$1,000. Supt, C. E. Hall.

Ord, Valley Co., population 1,208; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, several hand grenades; hose, rubber good 750 ft; value of fire department equipment \$1,750; value of buildings occupied \$400; total membership 30, volunteers; bell alarm. Chief engineer, J. C. Work.*

WATER SUPPLY—Source, springs; system, gravity to reservoir; cap 5,500 bbls; pumping engines, 120,000 gals in 10 hours; 24 hydrants, Eclipses; pipe 4 1-3 miles, 4 to 8 in dia; 11 valves; 106 taps; pressure 74 pounds; fire 105 pounds, waterworks owned by city; cost to construct \$12,000; ann expenses \$1,049. Supt, Chris Kellan.

Orleans, Harlan Co., population about 1,100; mercantile buildings, brick and wood, 1 to 2½ stories; private, wood and brick, 1 and 2 stories; wooden roofs are not permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 500 ft. Chairman of water com, N. B. Holand.

WATER SUPPLY—Source, tubular well; system, pump to tank; cap 65,000 gals; dy cap 24,000 gals; pipe 1 1-4 miles, 8 and 7 in dia; 12 hydrants; cost to construct \$12,000. Supt, E. R. Pate.

Pawnee City, Pawnee Co., population 1,550; fire area 160 acres; mercantile buildings, brick and stone, 2 stories; private, same, 2 stories; tin and iron roofs used; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$1,800; value of buildings occupied \$1,250; total membership 40, volunteers; bell alarm; 2 hose companies. Chief engineer, L. Agnew.*

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 80,000 gals; pumps dy cap 2,500,000 gals; hydrants 35; pipe 4 miles; 30 valves; 125 taps; pressure 70 to 80 pounds; works owned by city; cost to construct to date \$27,000; ann expenses \$1,000. Water com, Wm. Headley.

Plattsmouth, Cass Co., population 3,392; buildings, brick and wood, 1 to 3 stories. Fire department—1 hook and ladder truck, 4 hose carriages, 1 two-horse hose cart; hose, good 1,800, fair 200 ft, poor 500 ft; value of fire department equipment \$3,000; total ann expenses of department \$350; total membership 125, volunteers; bell alarm. Chief engineer, Elias F. Kildow.

WATER SUPPLY—Source, Platte river; system, pumping to standpipe through settling basins; reservoir cap 8,000,000 gals; standpipe cap 300,000 gals; pumping engines, dy cap 2,000,000 gals; 75 hydrants; pipe 10½ miles, 6 to 12 in dia; 30 valves; 40 meters; pressure, domestic 80, fire 93 to 160 pounds; 300 taps; Edison pressure recording gauge; waterworks owned by company; cost to construct \$135,000; 1 mile of new main in course of construction. Supt, T. F. Coursey.

Ponca City, Dixon Co., population estimated 1,800; fire area 80 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, 8 ladders; hose, cotton good 800 ft; value of fire department equipment \$1,500; total membership 20, all volunteers; bell alarm. Chief, John D. Forbes. (Another hose cart, 400 ft hose and hook and ladder truck are contemplated.)

WATER SUPPLY—Source, driven wells; system, pumping to reservoir; reservoir cap 150,000 gals; pumping engines, dy cap 378,000 gals; 15 hydrants; pipe 1½ miles, 8 and 4 in dia; 8 valves; 52 taps; pressure domestic 70, fire 100 pounds; waterworks owned by city; original cost to construct \$11,000; ann expenses \$700. Supt, R. E. Martin.

Randolph, Cedar Co., population 900; fire area 20 acres; mercantile buildings, brick, some sheet iron, 2 and 3 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted on main street; fireworks ordinance; causes of fire investigated. Fire department—volunteer bucket brigade.

WATER SUPPLY—Source, well; system, pumping to wooden tank, cap 80,000 gals; pumps, dy

cap 20,000 gals; pipe 2 miles; 3 hydrants; 150 taps; original cost to construct \$5,000, to date \$6,000; works owned by village. Commissioner, M. E. Dolan.

Red Cloud, Webster Co., population 1,839; fire area 320 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 400 ft, inferior 150 ft, rubber good 1,000 ft; value of fire department equipment \$2,500; total ann expenses of department \$1,100; total membership 90, volunteers; electric alarm, 12 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, A. J. Tomlinson.*

WATER SUPPLY—Source, wells and creek; system, pumping to standpipe and direct; standpipe cap 70,000 gals; pumping engines, dy cap 720,000 gals; 40 hydrants; pipe 5 miles, 4 to 8 in dia; 3 meters; pressure, domestic 82, fire 100 pounds; waterworks owned by city; cost to construct \$25,000; ann expenses \$1,500. Supt. T. J. Ward.*

Riverton, Franklin Co., population 389; fire area 60 acres; buildings, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 200 ft, inferior 50 ft; value of fire department equipment \$200; value of buildings occupied \$50; total ann expenses of department \$150; total membership 50, volunteers; bell alarm. Chief engineer, T. N. Moore.*

WATER SUPPLY—Source, Thompson's creek; system, pump to reservoir, cap 30,000 gals; pumping engines, cap 100 gals per min; 8 hydrants; pipe 2½ miles, 2 to 6 in dia; 2 valves; pressure, domestic 60, fire 75 pounds; waterworks owned by city; cost to construct \$6,000; ann expenses \$150; int on bonds 8 per cent. A. Holdrege.

St. Paul, Howard Co., population 2,000; fire area 8 blocks in business center; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$600; total membership 76, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, F. W. Crew.

WATER SUPPLY—Source, 32 driven wells; system, pumping to standpipe and direct; standpipe cap 50,000 gals; pumping engines, dy cap 750,000 gals; 26 hydrants; pipe 3½ miles; pressure, domestic 30 to 40, fire 100 pounds; waterworks owned by town; cost to construct \$22,000; int on bonds 6 per cent. Supt. H. N. Smith.*

Schuyler, Colfax Co., population 3,000; fire area 640 acres; mercantile buildings, brick in fire limits, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,250 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$150; total membership 85, volunteers; bell and whistle alarm. Chief engineer, Frank H. Kolm.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 85,000 gals; pumps daily cap 1,250,000 gals; 30 hydrants; pipe 4 miles, 10 to 4 in dia; 20 valves; pressure, domestic 40, fire 80 pounds; works owned by city; cost to construct \$25,000. Supt. S. D. Wheeler.

Seward, Seward Co., population 2,108; fire area 80 acres; buildings, brick and wood, 1 and 2 stories; fireworks ordinance; wooden roofs not permitted in fire limits. Fire department—1 chemical engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,200; total expenses of department \$150; total membership 56, volunteers. Chief engineer, J. O. Muldinger.

WATER SUPPLY—Source, wells; system, pumping to standpipe cap 83,555 gals; pumping engines, dy cap 1,000,000 gals; 50 hydrants; pipe 4 1-4 miles, 8 and 10 in dia; 18 valves; 121 taps; pressure 56 pounds; works owned by city; cost to construct \$34,000; ann expenses \$2,000. Supt. J. Goehring.

South Omaha, Douglas Co., population about

12,000; fire area 1,800 acres; mercantile buildings, brick and wood, 3 and 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 hose carriages; hose, rubber good 2,300 ft, inferior 500 ft, cotton good 800 ft; 5 horses, value \$700; value of equipment \$6,000; value of buildings occupied \$3,000; total expenses for past year \$6,500; membership 6, paid full time 5, paid part time 1; electric alarm; 13 street boxes; 3 fire companies. Chief, Fred M. Smith; chairman, J. Walters. (2 chemical extinguishers, 10 hand hose carts, private, 1 fifty-gallon chemical extinguisher owned by the packing houses and stock yards with 12,000 ft of cotton rubber lined hose and 22 men to man the same.)

WATER SUPPLY—Source (see Omaha).

Stromsburg, Polk Co., population 1,400; fire area 40 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—12 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$500; total membership 50, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, Chas. Wicklund.

WATER SUPPLY—Source, Cook wells; system, pumping to standpipe and direct; standpipe cap 32,000 gals; pumping engines, dy cap 144,000 gals; 16 hydrants; pipe 2 miles, 4 to 6 in; 3 valves; 107 taps; pressure, domestic 40, fire 110 pounds; works owned by city; cost to construct \$12,000; cost to date \$13,500; ann expenses \$1,500. Supt. J. A. Collison.

Superior, Clay Co., population 2,250; fire area 1 mile sq; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages, all kinds; other apparatus, hooks, ladders, etc; hose, rubber good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$200; total membership 40, volunteers; bell alarm. Chief engineer, C. E. Adams.

WATER SUPPLY—Source, well; system, pumping direct; pumping engines, dy cap 1,500,000 gals; 26 hydrants; pipe 4½ miles, 12 and 4 in dia; 7 valves; 250 taps; pressure, domestic 50, fire 150 pounds; waterworks owned by city; cost to construct \$28,000; cost to date \$35,000; ann expenses \$3,000. Supt. D. W. Quackenbush.

Sutton, Clay Co., population 2,200; fire area 1,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, land 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$1,600; value of buildings occupied \$200; total ann expenses of department \$1,800; membership 36, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, George Honey.*

WATER SUPPLY—Source, well; system, pumping to standpipe; standpipe cap 60,000 gals; pumping engines, dy cap 150,000 gals; 32 hydrants; pipe 2½ miles, 4, 6 and 8 in dia; 14 valves; 80 taps; pressure 55 pounds; works owned by city; cost to construct \$16,000; ann expenses \$1,200; int on bonds 6 per cent. Supt. J. Van Patten.

Syracuse, Otoe Co., population 728; new mercantile buildings, brick, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 36 rubber buckets; value of fire department equipment \$500; value of buildings occupied \$150; total membership 28; bell alarm. Chief engineer, W. F. Jennings.*

WATER SUPPLY—Source, wells. N. A. Duff.*

Tecumseh, Johnson Co., population 2,200; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance. Fire department—2 hose carriages; hose, linen rubber lined good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$4,000; total membership 38, volunteers; bell alarm. Chief, E. H. Grist.

WATER SUPPLY—Source, 5 wells; system, pump to reservoir and direct; reservoir cap 105,000 gals; standpipe cap 93,000 gals; pumping engines, dy cap 175,000 gals; 25 hydrants; pipe 4 1-8 miles, 4 to

10 in dia; 14 valves; 6 meters; pressure, domestic 50, fire 150 pounds; works owned by city; cost to construct \$24,750. Supt, C. K. Chubbuck.*

Tekamah, Burt Co., population 1,487; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft; total membership 50, volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, S. A. Hoon.

WATER SUPPLY—Source, wells; system, pumping direct and to reservoir; reservoir cap 500,000 gals; pumping engines, dy cap 500,000 gals; 28 hydrants; pipe 3 miles, 8 to 4 in dia; 18 valves; 60 taps; pressure, domestic 80, fire 80 to 120 pounds; waterworks owned by city; cost to construct \$18,000; ann expenses \$800. Supt, W. T. Sherman.

Uiles, Seward Co., population 500; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 horse power engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber inferior 500 ft, cotton good 900 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,000; total ann expenses of department \$200; total membership 50, volunteers; bell alarm. Chief engineer, Chas. L. Swartz.

WATER SUPPLY—Source, wells and 10 cisterns.

Valentine, Cherry Co., population 400; fire area 40 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—5 chemical extinguishers, 2 hose carriages; hose, cotton good 500 ft; value of fire department equipment \$500; total membership 16, volunteers. Chief engineer, Geo. H. Hornby.*

WATER SUPPLY—Source, Minnokadusa stream; system, pump to tank, cap 50,000 gals; pumping engines, dy cap 153,000 gals; 10 hydrants; pipe 1 3-8 miles, 2 to 8 in dia; 4 valves; 100 taps; pressure 22 pounds; waterworks owned by village; cost to construct \$8,400; ann expenses \$1,200. Engineer, J. F. Hunter.

Valparaiso, Saunders Co., population 750; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 750 ft; value of fire department equipment \$1,000; total membership 10, volunteers. Chief engineer, J. P. Miller.

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 60,000 gals; 10 hydrants; pipe 2 miles; waterworks owned by town; cost to construct \$6,500; ann expenses \$250. Town clerk, W. B. Griffin.

Wahoo, Saunders Co., population 2,500; fire area 60 acres; mercantile buildings, brick, iron and wood, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,700 ft; value of fire department equipment \$4,000; value of buildings occupied \$8,000, including city hall and offices; total ann expenses of department \$2,500; total membership 75, volunteers; chief paid part time; electric bell alarm. Chief engineer, M. A. Phelps.

WATER SUPPLY—Source, driven wells and Wahoo river; system, direct pumping; pumping engines, dy cap 2,000,000 gals; 43 hydrants; pipe 6 1/2 miles; pressure, domestic 60, fire 80 pounds; waterworks owned by company; cost to construct \$63,000. Supt, Chas. H. Adams.

Weeping Water, Cass Co., population 1,350; fire area 40 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft, inferior 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$150; total membership 30, volunteers; bell alarm; 1 hose company, 1 hook and ladder company. Chief engineer, W. A. Haase.*

WATER SUPPLY—Source, wells; system, pump to reservoir, cap 720,489 gals; standpipe cap 120,000 gals; pumping engines; hydrants 15; pipe 1 1/2 miles, 4, 6 and 8 in dia; pressure, domestic 60, fire 100 pounds; waterworks owned by city; cost to

construct \$17,000; ann expenses \$1,000. Supt, A. P. Woodard.*

West Lincoln, Lancaster Co., population 443; fire area 220 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hose carriage; hose, cotton good 1,300 ft; value of buildings occupied \$600; total ann expenses of department \$175; total membership 45, volunteers; whistle alarm; total no of fire companies 1. Chief engineer, W. C. Austin.*

WATER SUPPLY—Source not given; system, direct; 1 reservoir; pumping engine, dy cap 3,000,000 gals; 6 hydrants; 2 1/2 miles pipe; pressure 60 pounds. Supt, John Haines.*

West Point, Cuming Co., population 2,000; fire area 10 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 two-wheel horse wagon; hose, rubber good 700 ft, cotton inferior 500 ft, linen good 200 ft; value of fire department equipment \$3,500; total ann expenses of department \$275; total membership 98, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, J. Hugg.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; cap 35,000 gals; pumping engines, cap 235 gals per minute; 34 hydrants; pipe 3 1/2 miles, 4, 6, 8 in dia; 13 valves; 176 taps; pressure, domestic 85, fire 185 pounds; waterworks owned by town; cost to construct \$10,000; ann expenses \$1,200. Supt, Jacob Haeffelin.

Wilber, Saline Co., population 1,500; fire area 320 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$200; total membership 10, volunteers; bell alarm. Village clerk, J. H. Grimm.

WATER SUPPLY—Source, 4 wells with force pumps, capacity 50 gals per minute each.

Wisner, Cuming Co., population 1,000; fire area 180 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 900 ft; value of fire department equipment \$2,600; value of buildings occupied \$5,000; ann expenses of department \$100; total membership 18, paid part time 1, volunteers; bell alarm. Foreman, J. Shompert.

WATER SUPPLY—Source, wells; system, gravity; 3 tanks, cap 100,000 gals; dy cap 60,000 gals; 18 hydrants, pipe 2 miles, 4 and 6 in dia; 10 valves; quality of water good; pressure 75 pounds; works owned by city; cost to construct \$9,500; ann expenses \$700. Supt, F. W. Frasur.

Wymore, Gage Co., population 2,429; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.*

WATER SUPPLY—Source, wells; system, pump to standpipe, cap 63,000 gals; dy cap 75,000 gals; 51 hydrants; pipe 5 miles, 10 to 4 in dia; waterworks owned by city; cost to construct \$30,000. Mayor, P. M. Hobbs; town clerk, George D. Hemperley.*

York, York Co., population 3,405; fire area 800 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,700 ft; value of fire department equipment \$3,500; value of buildings occupied \$9,000; total membership 50, paid part time 8, volunteers 42; bell alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, W. B. Farman.

WATER SUPPLY—Source, Cook wells and Beaver creek; system, pumping to standpipe; reservoir cap 80,000 gals; pumping engines, dy cap 2,000,000 gals; 60 hydrants; pipe 5 1-4 miles, 4 to 12 in dia; 10 meters; pressure, domestic 60, fire 100 to 180 pounds; works owned by company; cost to construct \$60,000; ann expenses \$2,300. Receiver, James Daniels; supt, J. R. Strasser.*

NEVADA.

Austin, Lander Co. population 1,215. Fire department—2 hose carriages; hose, rubber good 1,500 ft; total membership 70, volunteers. Chief engineer, Dan Reynolds.

WATER SUPPLY—Source, tunnel driven into mountain; system, gravity from reservoir; cap 50,000 gals; 15 hydrants; pipe 1½ miles, 3 in dia; 7 valves; pressure 97 pounds; waterworks owned by company; cost to construct \$20,000; ann expenses \$2,000. Pres of com, W. W. Bishop; supt, J. B. Horton.

Candelaria, Esmeralda Co. population 345; buildings, wood, 1 story; wooden roofs permitted; no fireworks ordinance; rubber hose inferior 300 ft.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 500,000 gals; pipe 30 miles, 4 and 5 in dia; 4 hydrants; pressure from 30 to 150 pounds; works owned by company; cost to construct \$250,000; ann expenses \$5,000. Pres, C. W. Hulse; supt, A. M. Ashby.

Carson City, Ormsby Co. population 5,000; fire area 1,000 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 6 hose carriages, 1 steam pump on locomotive, carries hose and suction pipe; hose, cotton good 2,000 ft, rubber good 500 ft; value of equipment \$4,000; value of buildings occupied \$8,000; ann expenses \$1,000; membership 50, paid full time 1, paid part time 2, remainder volunteers; bell and whistle alarm. City marshal Wm. Kinney.

WATER SUPPLY—Source, spring; system, gravity; 8 reservoirs, cap 1,800,000 gals; 24 hydrants; pipe 8 miles, 2 to 12 in dia; 22 valves, various; pressure 40 to 100 pounds; waterworks owned by company; cost to construct to date \$105,000; ann expenses \$3,000; put on bonds 10 per cent. Supt, R. L. Dougherty.

Cherry Creek, White Pine Co. mercantile buildings, wood, 1 and 1½ stories; no fire department.*

WATER SUPPLY—Source, tunnel; system, gravity; reservoir cap 20,000 gals; 50 hydrants; pipe 1 mile, 2½ to 1 in dia; quality of water good; works owned by company; cost to construct \$8,000. Supt, Geo. F. Parker.*

Elko, Elko Co. population 850; mercantile buildings, brick and wood, 1 and 1½ stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—Hook, ladder and bucket company. Chief W. T. Smith.*

WATER SUPPLY—Source, Humboldt river and springs; system, gravity; 2 reservoirs, cap 200,000 and 60,000 gals respectively; 4 hydrants; pipe 8 miles, 7, 4, 3 and 2 in dia; 100 taps; pressure, domestic 14 to 42, fire 42 pounds; waterworks owned by company; original cost to construct \$20,000. Supt, W. T. Smith.*

Eureka, Eureka Co. population 1,812; fire area 400 acres; mercantile buildings, stone, brick, and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted. Fire department—1 hand engine, 14 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 2 hose carts; hose, rubber good 3,000 ft, inferior 200 ft, leather good 400 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,000; total expenses of department last year \$2,000; total membership 300, volunteers; bells and whistles alarm; 1 hook and ladder company, 4 hose companies. Chief engineer, F. A. Johnson.*

WATER SUPPLY—Source, springs; system, gravity; 6 tanks, cap 250,000 gals; pumping engines, dy cap 200,000 gals; 19 hydrants; pipe 38 miles, 3 to 6 in dia; 10 valves; pressure, domestic 45 to 90, fire 100 pounds; waterworks owned by McCoy estate; cost to construct \$60,000; ann expenses \$5,000. Supt, Elmer A. McConnell.

Gold Hill, Storey Co. population 1,500; fire area 2,000 acres; buildings, brick, stone and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 4 doz chemical extinguishers, 3 hose carts; hose, rubber good 3,650 ft; value of fire department equipment \$5,800; value of buildings occupied \$4,000; expense of department for past year \$1,140; total membership 150, paid full time; steam whis-

tle and bell alarm; 1 engine company, 3 hose companies. Chief engineer, Geo. H. Baglin.*

WATER SUPPLY—See Virginia City; 20 hydrants.

Hamilton, White Pine Co. population 1,800; fire area 17 blocks; mercantile buildings, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 150 ft, rubber good 150 ft, inferior 100 ft; value of fire department equipment \$800; total membership 40, volunteers 40. Chief engineer, Wm. Banbor.

WATER SUPPLY—Source, Illapoh springs; system, gravity; reservoir cap 200,000 gals; 20 hydrants; pipe 1 mile, 3 and 4 in dia; 20 meters; pressure, domestic 45, fire 200 pounds; quality of water good; waterworks owned by individual; cost to construct \$10,000; ann expenses \$300.*

Hawthorne, Esmeralda Co. population 1,400; fire area 18½,000 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 600 ft; value of fire department equipment \$2,500; volunteer members; bell alarm. Chief, F. J. Balsar.

WATER SUPPLY—Source, 2 mountain streams; system, gravity; reservoir cap 500,000 gals; hydrants 8; pipe 8 miles, 3½, 4, 6 in dia; 8 valves; quality of water pure; pressure 150 pounds; works owned by company; cost to construct \$45,000; ann expenses \$500. Pres, H. M. Yerington; supt, R. J. Laws.

Palisade, Eureka Co. population not given; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—Each family is sufficiently supplied with hose which can be used in case of fire.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 50,000 gals; pipe 2 miles, 2 in dia; 10 valves; pressure, domestic 35, fire 50 pounds; works owned by company. Supt, D. J. Colton.

Pioche, Lincoln Co. population 678; buildings, wood, 1 story. Fire department—5 hose carriages; value of fire department equipment \$2,000; total ann expenses of department \$100; total membership 40; bell alarm. Chief engineer, E. D. Turner.*

WATER SUPPLY—Source, 3 groups of springs; system, gravity; 2 tanks, cap 250,000 gals; 23 hydrants; pipe 13 miles, 5 to 12 in dia; pressure 150 to 400 ft; cost to construct \$152,000; ann expenses \$3,500; works owned by company. Pres of works, W. S. Godbe; supt, W. L. Cook.*

Reno, Washoe Co. population estimated 3,000; fire area 1,920 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine (not in use), 4 hose carriages, all kinds; hose, rubber good 2,000 ft, inferior 500 ft; 2 horses, value \$350; value of fire department equipment \$13,730; value of buildings occupied \$500; total ann expenses of department \$4,878; total membership 19, 4 paid full time, 15 Coats.* paid part time; bell alarm. Chief engineer, S. G.

WATER SUPPLY—Source, Truckee river; system, gravity; reservoir cap 30,000,000 gals; hydrants 28; 13 miles, 2 to 15 in dia; 60 valves; 424 taps; pressure 60 pounds; works owned by Reno Water, Light and Land Co; cost to construct \$150,000. Supt, C. C. Powning.

Tuscarora, Elko Co. population 1,156; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, Twin Bridges creek; system, gravity; reservoir cap 75,000 gals; 9 hydrants; pipe 15½ miles; pressure 114 pounds; works owned by company. Supt, R. Catlin.

Virginia City, Storey Co. population 8,517; mercantile buildings, wood and brick, 2½ stories; private, wood, 2½ stories; wooden and metal roofs. Fire department—5 hose carriages, 10 stationary reels of hose; diameters couplings used; hose, cotton good 1,400 ft, rubber good 5,000 ft; 4 horses; value of fire department equipment \$28,000; value of

buildings occupied \$4,000; total ann expenses of department \$16,000; total membership 7, paid full time; bell and whistle alarm. Chief engineer, Wm. Fennison.

WATER SUPPLY—Source, Marlette lake, Hobart creek system, gravity; 3 reservoirs, cap 1,618,600,000 gals; 93 hydrants in Va. City, 38 in Gold Hill; pipe 22 miles, 10 to 14 in dia; 2350 taps; pressure, domestic 140 to 45, fire 150 to 180 pounds; waterworks owned by company; cost to construct \$2,100,000; ann expenses \$58,000. Supt, J. B. Overton.

Winnemucca, Humboldt Co., population

1,037; fire area 50 acres; buildings, wood, 1 story; wooden roofs permitted. Fire department—12 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 12 fire boats; hose, rubber good 600 ft; value of fire department equipment \$1,500; total ann expenses of department \$600; total membership 73, volunteers. Chief engineer, F. Reid.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 8,000,000 gals; pumping engine, dy cap 375,000 gals; 18 hydrants; pipe 16 miles, 4 to 10 in dia; pressure 75 pounds; cost to construct \$20,000; ann expenses \$3,000. Supt, J. Rougon.*

NEW HAMPSHIRE.

Asteland, Chesbire Co., population 870; buildings, wood, 1 and 2 stories. Fire department—2 hand engines, 1 hose carriage; hose, cotton good 50 ft, rubber lined 200 ft; total membership 4, volunteers; bell alarm. Chief engineer, O. S. Angles.*

WATER SUPPLY—Source, Cold river.*

Amherst, Hillsborough Co., population 1,053; mercantile buildings, wood, 1 and 1 1-2 stories; private, wood, 1 to 1 1-2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$158; total membership 30, volunteers; bell alarm. Chief, W. W. Sloan.

WATER SUPPLY—Source, spring, 5 cisterns, 3 large reservoirs.

Antrim, Hillsborough Co., population 650; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage, ladders, hooks etc.; hose, leather good 200 ft, cotton good 1,000 ft; value of fire department equipment \$1,150; volunteer members 50. Chief engineer, H. S. Cartoo.

WATER SUPPLY—Source, Campbells Pond; system gravity; hydrants 26; pipe 6 miles, 8 to 4 in; 5 valves; 36 taps; pressure 100 pounds; works owned by village; cost to construct \$23,000. Supt, Henry Simonds.

Bartlett, Carroll Co., population 1,247; buildings, brick and wood, 1 and 2 stories. Fire department—1 hose carriage, 2 Knowles pumps at Mills; hose, linen good 1,000 ft; electric alarm; 3 street boxes. Chief, Wm. Simonds.

WATER SUPPLY—Source, brook; system, gravity; pipe 2 miles; 17 hydrants; pressure 50 pounds; cost to construct \$4,000. Supt, Frank George.*

Berlin, Coos Co., population 3,729; fire area 50 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hand engine, 3 hose carriages, all kinds, 4 ladders; hose, rubber good 550 ft, inferior 50 ft; value of fire department equipment \$700; value of buildings occupied \$1,000; bell alarm. Chief engineer, W. H. Gerriah.*

WATER SUPPLY—Source, brooks; system, gravity; cap of reservoir 3,000,000 gals; hydrants 65; pipe 10 miles, 6 to 12 in dia; 60 valves; 800 taps; pressure 40 to 140 pounds; works owned by company; cost to construct to date \$104,000. Pres F. A. Colby; supt, W. C. Perkins.

Bethlehem, Grafton Co., population 1,267; mercantile buildings, wood, 2 to 4 stories; private, wood, 1 1-2 to 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, linen good 600 ft; total membership 28, volunteers; bell alarm. Chief engineer, J. K. Burrett.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 250,000 gals; 9 hydrants; pipe 4 miles, 1 to 6 in dia; 5 valves; 58 taps; pressure, domestic 80 pounds, fire same; works owned by company; cost to construct \$10,000. Supt, John S. Blandin.

Bristol, Grafton Co., population 1,524; buildings, brick and wood, 1 1/2 to 2 stories; wooden roofs permitted. Fire department—1 hand engine, 3 hose carriages, extension ladder; hose, 1,300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of

department \$350; total membership 40, volunteers; bell alarm. Chief engineer, Geo. C. Currier.*

WATER SUPPLY—Source, Newfound lake, located about 2 miles from town; system, gravity; 2 force pumps; 31 hydrants; pipe 6 1/2 miles; 32 valves; 165 taps; pressure 55 to 87 pounds; waterworks owned by company; cost to construct \$23,000; ann expenses \$750. Pres, B. F. Perkins; supt, Smith D. Fellows. Town also has 2 powerful pumps, 8 hydrants in addition to above.

Canaan, Grafton Co., population 400; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 450 ft; value of fire department apparatus \$350; value of buildings occupied \$600; 30 volunteer members. Foreman, Frank P. Dwyre.

WATER SUPPLY—Source, Crystal lake of 1,000 acres; system, gravity; 10 hydrants; pipe 1 1/2 miles, 12 to 6 in dia; 10 valves; pressure, domestic 96, fire 86 pounds; waterworks owned by company; original cost to construct \$13,000. Supt, O. L. Rand.

Claremont, Sullivan Co., population 7,000; fire area town; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 hose carriages; hose, cotton, rubber lined, good 2,000 ft; value of equipment \$10,000; total membership 40, full paid; Stevens fire alarm; 8 street boxes. Chief engineer, G. H. Storwell.

WATER SUPPLY—Source, streams; system, gravity; reservoir cap 32,000,000 gals; 61 hydrants; pipe 10 1/2 miles, 2 to 12 in dia; 96 valves; 500 taps; pressure 64 to 120 pounds; waterworks owned by company; cost to construct \$1,000,000. Supt, James L. Rice.

Colebrook, Coos Co., population 1,736; fire area 1,000 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber lined good 1,200 ft, inferior 500 ft, linen inferior 500; value of fire department equipment \$1,600; value of buildings occupied \$500; total ann expenses of department \$150; total membership 30, volunteers; bell alarm. Chief engineer, A. C. Wallace.

WATER SUPPLY—Source, springs; system, gravity; 2 reservoirs, cap 60,000 gals; 9 hydrants; pipe 3 miles, 3 to 5 in dia; pressure 20 to 50 pounds; waterworks owned by G. W. Annis; cost to construct \$10,000; ann expenses \$150.

Concord, Merrimack Co., population 17,000; fire area 3 sq miles; mercantile buildings, brick, 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 steam fire engines, 2 hand engines, 8 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 4 hose wagons, 1 supply wagon; hose, cotton good 12,000 ft, leather good 1,500 ft; 9 horses, value \$2,100; value of fire department equipment \$35,000; value of buildings occupied \$56,000; total ann expenses of department \$18,000; total membership 180, paid full time 4, volunteers 176; Gamewell electric alarm; 32 street boxes. Chief engineer, Charles A. Davis.

WATER SUPPLY—Source, Penacook Lake; system, gravity and pumping to reservoir; reservoir cap 2,000,000 gals; pumping engine, dy cap 2,000,000 gals; 288 hydrants; pipe 51.54 miles, 4 to 30 in dia; 629 valves; 2,828 taps; cement lined and cast iron pipe; pressure, domestic 40, fire 80 pounds;

waterworks owned by city; expenses of construction to date \$804,172; ann expenses \$7,084. Supt. V. O. Hastings.

Conway, Carroll Co., population of village 500; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 1,000 ft, private 500 ft. Chief, Peter Mitchell.

Water Supply—Source, impounding reservoir on Gold brook; system, gravity; reservoir cap 101,000 gals; 24 hydrants; pipe 5 miles; 9 valves; 84 taps; pressure 43 to 48 pounds; works owned by company; cost to construct \$14,500, to date \$16,000; ann expenses \$150. Supt. B. F. Clark.

Berry, Rockingham Co., population 2,604; buildings, wood. Fire department—3 hand engines, 2 chemical engines on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon, 1 supply wagon; value of fire department equipment \$3,500, 3 buildings occupied; total membership 150, volunteers; bell and whistle alarm. Chief engineer, H. S. Warner.*

Water Supply—Source, wells and cisterns; pumping engines, dy cap 40,000 gals. Town clerk, E. T. Parker.*

Dover, Strafford Co., population 13,200; fire area 4 sq miles; mercantile buildings, brick, 2 to 6 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 hand engine, not used, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 4 hose wagons; hose, cotton good 12,600 ft, inferior 2,500 ft; 8 horses, value \$1,800; value of fire department equipment \$35,000; value of buildings occupied \$18,000; total ann expenses of department \$9,000; total membership 68, paid full time 3, paid part time 65; Gamewell alarm; 27 street boxes. Chief engineer, George E. Varney.

Water Supply—Source, wells, springs and Willard pond; system, pumping into mains, surplus to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 2,000,000 gals; 165 hydrants; pipe 22½ miles, 4 to 16 in dia; 273 valves; 1,240 taps; pressure, domestic 90, fire 90 pounds; waterworks owned by city; original cost to construct \$362,000; ann expenses \$28,884. Water com. J. W. Cate.

Epping, Rockingham Co., population 1,720; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 hose carriages, all kinds; hose, cotton good 700 ft; total membership 25, volunteers; church bell alarm. Chief engineer, John S. Ladd.

Water Supply—Source, river, 1 large cistern and wells.

Exeter, Rockingham Co., population 4,300; fire area 2,000 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine; private chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 4,300 ft, leather inferior 400 ft; 10 horses, value \$800; value of fire department equipment \$10,000; value of buildings occupied \$5,500; total ann expenses of department \$3,968; total membership 70, paid full time 70; Gamewell alarm; 12 street boxes; 6 fire companies. Chief engineer, Geo. H. Gooch.

Water Supply—Source, river and well; system, pumping to standpipe; cap 211,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 53 hydrants; pipe 12 miles, 4 to 10 in dia; 7 meters; pressure, domestic 55 pounds; waterworks owned by company; cost to construct \$140,000; int on bonds 5 per cent. Supt. Chas. H. Johnson.

Farmington, Strafford Co., population 3,064; buildings, wood, 2 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton 500 ft, leather good 750 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$700; total membership 70, full paid; bell alarm. Chief engineer, Eben Frye.*

Water Supply—Source, springs; system, pumping to reservoir; pumping engine; 30 hydrants; pipe 1½ miles, 4 to 8 in dia; 5 meters; pressure

50 pounds; waterworks owned by city; ann expenses \$500. Supt. Wm. F. Thayer.*

Franklin, Merrimack Co., population 4,085; mercantile buildings, wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton rubber lined good 2,000 ft, leather inferior 500 ft; expenses of department \$15,000; total membership 40, volunteers. Chief engineer, Chas. F. Noyce.

Water Supply—Source, springs; system, pumping to reservoir, cap 500,000 gals; pumping engines, dy cap 500,000 gals; 80 hydrants; pipe 10 miles, 12 to 4 in dia, McNeal Pipe Works; valves 85; 100 meters; pressure, 40 to 110 pounds; waterworks owned by town; cost to construct \$70,000; int on bonds 4 per cent. Supt. E. L. Wallace.

Goffstown, Hillsborough Co., population 1,000; fire area ¼ miles sq; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 1,150 ft, leather good 700 ft; value of fire department equipment \$1,740; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 30, volunteers. Chief engineer, Robinson Brown.

Water Supply—Source, Whittle brook; system, gravity; reservoir cap 2,500,000 gals; 40 hydrants; pipe 5 miles, 12, 10 and 6 in dia; 12 valves; 200 taps; pressure 200 ft head; waterworks owned by village fire precinct; original cost to construct \$42,000; cost to date \$45,000; ann expenses \$150. Chairman of com, Robinson Brown.

Gorham, Coos Co., population 1,700; buildings wood, fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 1,000 ft, linen 400 ft; value of fire department equipment \$1,800; value of buildings occupied \$1,500; total membership 120, paid; bell and whistle alarm. Chief engineer, E. Y. Vernon.

Water Supply—Source, springs; system, gravity; reservoir cap 10,000 gals; 11 hydrants; pipe 4 3-4 miles, 3 to 4 in dia; 17 valves; pressure, 56 pounds; waterworks owned by company; cost to construct \$6,000; ann expenses \$300. Pres, Wallace Mason.

Great Falls, Strafford Co., population 6,500; buildings, wood, 2 stories; shingle roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 3,000 ft; cotton poor 1,400 ft; value of fire department equipment \$4,000; value of buildings occupied \$4,900; total ann expenses \$2,800; total membership 180; bell alarm. Chief engineer, J. S. McDaniel.

Water Supply—Source, Salmon Falls river; system, pumping to reservoir and direct; reservoir cap 1,500,000 gals, standpipe cap 165,000 gals; pumping engines, dy cap 1,500,000 gals; 60 hydrants; 6 miles pipe, 4 to 12 in dia; pressure 40 to 60 pounds; waterworks owned by company. Supt. F. G. Chapman.

Groveton, Coos Co., population 1,200; mercantile buildings, wood, 3 stories; private, wood, 1½ stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No organized fire department. Mills have 4,000 ft of hose.

Water Supply—Source, springs; system, gravity; pipe 3 miles, 3 in dia; quality of water good; pressure, domestic 90, fire 98 pounds; works owned by company; cost to construct \$6,000. Pres, C. C. O'Brien; mgr, C. T. McNally.*

Hanover, Grafton Co., population 1,817; fire area ¼ mile sq; buildings, wood and brick, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 50 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft, inferior 500 ft, cotton good 300 ft, leather good 600 ft, poor 400 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,500; total membership 48. Chief engineer, H. C. Brown.

Water Supply—Source, surface drainage and springs; system, gravity; reservoir cap 115,000, 000 gals; 45 hydrants; pipe 6¼ miles, 14 to 4 in dia; 55 valves; pressure 65 to 90 pounds; waterworks owned by village and college; cost to construct

\$90,000. Supt, F. W. Davison; engineer, R. Fletcher.

Henniker, Merrimack Co., population 1,400; fire area 1 sq mile; mercantile buildings, wood, 3 stories; private, wood 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—25 chemical extinguishers.

WATER SUPPLY—Source, springs; system, gravity; pipe 1 mile, 3 in dia; 4 valves; pressure 110 pounds; waterworks owned by company; cost to construct \$6,000. Pres and supt, H. A. Emerson; (Town intend buying works and will put in hydrants, etc.)

Hillsboro Bridge, Hillsborough Co., population 2,120; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton 2,000 ft; value of equipment \$1,800; value of buildings occupied \$1,200; membership 33, volunteers. Fire com, Geo. W. Hamlet.

WATER SUPPLY—Source, large pond; system, gravity; reservoir cap 1,500,000 gals; 35 hydrants; pipe 6 miles, 4 to 8 in dia; 265 taps; waterworks owned by company; cost to construct \$50,000; ann expenses \$1,000. Supt, S. W. Holman.

Hinsdale, Cheshire Co., population 2,258; fire area 200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, linen good 3,000 ft, leather good 800 ft; value of fire department equipment \$15,000; value of buildings occupied \$4,500; total ann expenses of department \$400; total membership 68, paid part time; steam gong alarm. Chief engineer, M. H. Bardwell.

WATER SUPPLY—Source, river and canal; system, direct; 4 force pumps; 28 hydrants; pipe 2½ miles, 4 in dia; 8 valves; pressure 160 pounds; waterworks owned by town; cost to construct \$11,000. Supt, M. H. Bardwell.

Hollis, Hillsborough Co., population 1,000; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, leather inferior 300 ft; value of fire department equipment \$200; value of buildings occupied \$500; bell alarm. Chief, Sullivan E. Kimball.

WATER SUPPLY—Source, wells and cisterns.

Hudson, Hillsborough Co., population 1,092; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 ladder truck, 1 hose carriage; 1,000 ft of cotton hose; value of equipment \$645; value of buildings occupied \$400; ann expenses of department \$400; membership 26, volunteers. Foreman, W. F. Cummings.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 75,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 10; pipe 34 miles, 6 to 2 in dia; 72 taps; works owned by company; cost to construct \$40,000. Pres, G. O. Saunders; supt, C. E. Myers.

Keene, Cheshire Co., population 7,446. Fire department—2 steam fire engines, 2 hand engines, 2 hook and ladder trucks, 8 hose carriages; hose, cotton rubber lined good 4,000 ft, inferior 1,800 ft; total membership 68, volunteers; telegraph alarm; street boxes 17. Chief engineer, Oscar P. Applin.

WATER SUPPLY—Source, lakes; system, gravity; reservoir cap 1,300,000 gals; 189 hydrants; pipe 31 1-4 miles, 4 to 24 in dia; 325 valves; 1,419 taps; pressure 65 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct to date \$219,643.13; ann expenses \$2,000. Chairman of com, N. G. Gurnsey; supt, P. F. Babidge.

Lacoma, Belknap Co., population about 12,000; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 3 hook and ladder trucks, 8 hose carriages, 3 hose wagons, 1 supply wagon; hose, cotton good 8,000 ft, inferior 4,000 ft, leather fair 1,750 ft; 3 horses, value \$900; value of fire department equipment \$9,000; value of fire department buildings \$2,500; total ann expenses about \$16,000; total membership 138, paid part time; telegraph alarm; street boxes 17. Chief engineer, Geo. A. Sanders.

WATER SUPPLY—Source, Lake Winnipisogee; system, pumping to reservoir and direct; reser-

voir cap 2,750,000 gals; pumping engines, dy cap 1-000,000 gals; other pump 2,600,000 gals; 88 hydrants; pipe 17.88 miles, 4 to 12 in dia; 89 valves; 600 meters; pressure 85 pounds; 1,100 taps; waterworks owned by company; cost to construct to date \$135,211; ann expenses \$5,438; int on bonds 5 per cent. Supt, F. P. Webster.

Lancaster, Coos Co., population 5,000; fire area 1 mile; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, linen good 3,500 ft, cotton good 200 ft; value of fire department equipment \$5,000; value of 2 buildings occupied \$2,000; total ann expenses of department \$1,000; total membership 50, part paid; bell and whistle alarm. Chief engineer, Edward R. Kent.

WATER SUPPLY—Source, Garland brook; system, gravity; reservoir cap 2,000,000 gals; hydrants 58; pipe 12½ miles, 6, 8, 10, 12 in dia; valves 58; 153 taps; pressure, domestic 75, fire 80 to 85 pounds; works owned by Co; cost to construct \$55,000. Pres, Wm. Clough.

Lebanon, Grafton Co., population 3,763; fire area 2,560 acres; mercantile buildings, wood, 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—2 hand engines, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 200 ft, inferior 100 ft, leather good 1,300 ft, inferior 800 ft; value of fire department equipment \$12,340; value of buildings occupied \$1,600; total ann expenses of department \$973; total membership 119, paid part time 112; bell alarm. Chief engineer, Frank Sayre.*

WATER SUPPLY—Source, Mascoma river; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 59 hydrants; pipe 10 miles, 3 to 10 in dia; 98 valves; 431 taps; pressure 110 pounds; waterworks owned by city; cost to construct \$40,000; to date \$70,000; ann expenses \$1,000. Pres, C. E. Lewis; supt, H. P. Goodrich.

Lisbon, Grafton Co., population 2,000; fire area 640 acres; buildings, wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft, inferior 250 ft; value of fire department equipment \$3,000; total ann expenses of department \$1,400; total membership 25, volunteers; whistle and gong alarm. Chief engineer, H. S. Wheeler.

WATER SUPPLY—Source, Pearl lake; system, gravity; 34 hydrants; pipe 6 miles, 4 to 8 in dia; pressure 100 pounds; waterworks owned by company; cost to construct \$24,000; ann expenses \$1,500. Supt, L. C. Payne.

Littleton, Grafton Co., population 3,365; fire area 2 sq miles; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages equipped with hose; hose, cotton good 350 ft, leather good 2,000 ft; total membership 28, volunteers; Stevens alarm; 11 street boxes. Chief engineer, John T. Simpson.

WATER SUPPLY—Source, springs and river; system, gravity and pumping to reservoir; reservoir cap 550,000 gals; pumping engines, dy cap 240,000 gals in 10 hours; 55 hydrants; pipe 17 miles, 4 to 8 in dia; 30 valves; pressure 126 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$1,200. Pres of com, B. H. Corning; supt J. B. Richardson.

Manchester, Hillsborough Co., population 48,128; mercantile buildings, brick, 4 to 5 stories; private, wood, 2 and 2½ stories; wooden roofs permitted. Fire department—8 steam fire engines, 1 chemical engine on wheels, 4 hook and ladder trucks, 5 hose carriages, 3 hose wagons; hose, cotton 14,250 ft, leather 8,000 ft; 37 horses; value of fire department equipment \$4,903.50; 6 buildings occupied; total ann expenses of department \$49,439; total membership 144, paid full time 27, paid part time 117; telegraph alarm; 56 street boxes. Chief engineer, Thos. W. Lane.

WATER SUPPLY—Source, Massabesic lake; system, pumping to reservoir; reservoir cap 15,000,000 gals; pumping engines, dy cap 10,000,000 gals; 568 hydrants; pipe 73 miles, 4 to 20 in dia; 614 valves; 4,200 taps; pressure 60 pounds; waterworks owned by city; cost to construct \$1,150,060. Supt,

C. K. Walker. (4,000,000 gal reservoir for high service, and 8,000,000 gal per day pumps are being set up.)

Marlow, Cheshire Co., population 584; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, hand grenades; total ann expenses of department \$192; whistle alarm. Chief, H. E. Honey.

WATER SUPPLY—Source, Ashuelot river. *

Meredith, Belknap Co., population 800; fire area 320 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 400 ft, inferior 200 ft, leather good 450 ft, inferior 75 ft; value of equipment \$1,000; value of buildings \$500; 3 fire companies, composed in all of 60 volunteers. Chief engineer, Albert A. Kidder.

WATER SUPPLY—Source, Lake Waukiwan; system, gravity; cap of reservoir 7,000,000 gals; pipe 5 miles; pressure 38 pounds; waterworks owned by company; cost to construct about \$35,000. Com, Geo. F. Sanborn.

Meriden, Sullivan Co., population 200; fire area 100 to 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; no fire department. (Have some private hose.)

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 30 to 40 gals; pipe 10,000 ft, 1 and 2 in dia; works owned by company; cost to construct \$3,700. Pres, A. B. Chell's; treas, John T. Duncan.

Milford, Hillsborough Co., population 3,014; buildings, wood, 2 and 3 stories. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; 2 buildings owned by town; bell and horn alarm. Chief engineer, Geo. C. Farrell.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 75,000 gals; reservoir cap 800,000 gals; pumping engines, dy cap 2,400,000 gals; 100 hydrants; pipe 8 miles, 4 to 12 in dia; 40 valves; 320 taps; pressure 80 pounds; waterworks owned by town; cost to construct \$65,000. F. W. Sawyer, water registrar.

Nashua, Hillsborough Co., population 21,000; mercantile buildings, brick, 3 stories; private, wood, 2 stories. Fire department—3 steam fire engines, 2 chemical engines on wheels, 6 chemical extinguishers, 2 hook and ladder trucks, 6 hose carriages, all kinds; hose, rubber good 10,500 ft; 17 horses, value \$4,000; value of fire department equipment \$38,650; value of buildings occupied \$61,000; total ann expenses of department \$20,000; total membership 100, paid full time 14, paid part time 86; Gamewell electric alarm; 42 street boxes; 7 fire companies. Chief engineer, Geo. O. Osborn.

WATER SUPPLY—Source, Pennichuck brook; system, pumping to reservoir and direct; reservoir cap 4,000,000 gals; pumping engines, dy cap 18,000,000 gals; 180 hydrants; pipe 50 miles, 4 to 24 in dia; 275 valves; 3,500 taps; pressure, domestic 55, fire 75 pounds; Edson pressure recording gauge; waterworks owned by company. Supt, Horace G. Holden.

New Market, Rockingham Co., population 2,742. Fire department—2 fire companies. Henry Tuttle. *

WATER SUPPLY—Water power from mills, which will reach entire business portion of town (Will have waterworks with 50 fire hydrants). Town clerk, John L. Bennett. *

Newport, Sullivan Co., population 2,323; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 2,000 ft, linen inferior 500 ft; 6 horses, hired by the year; value of fire department equipment \$7,000; value of buildings occupied \$1,500; total ann expenses of department \$1,050; total membership 35, paid part time; Stevens electric alarm; 8 street boxes. Chief engineer, F. J. Latimer.

WATER SUPPLY—Source, springs and wells, 4 reservoirs and river running through center of village. (Waterworks will probably be put in this year a gravity system to cost \$80,000.)

Pennacook, Merrimack Co., population 3,172, partly in Concord; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wood-

en roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, private chemical extinguishers, 3 hose carriages, 2 hose wagons; hose, cotton rubber lined good 2,500 ft, linen 300 ft, inferior 400 ft; value of two buildings occupied \$10,500; total ann expenses of department \$1,200; total membership 45, paid part time; bell and whistle alarm; 2 engine companies. Assistant engineer, Abiel W. Rolfe.

WATER SUPPLY (of Concord, which supplies part of Pennacook)—Source, Pennacook lake; system, gravity; hydrants 45; valves 48; pipe 12 miles; 21 meters; waterworks owned by city of Concord; pressure 60 to 85 pounds; cost to construct \$481,224. Town clerk, W. G. Buxton. *

Peterborough, Hillsborough Co., population 2,507; fire area 23,040 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, alarmse couplings; hose, linen good 1,300 ft, inferior 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$300; total ann expenses of department \$500; total membership 57, volunteer. Chief engineer, H. B. Needham.

WATER SUPPLY—Source not given; system, direct pumping; 17 hydrants; pipe 4 to 6 in dia. Town clerk, John H. Steele. *

Pittsfield, Merrimack Co., population 2,600; fire area 700 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, linen (unlined) good 2,500 ft, linen rubber lined good 500 ft; value of equipment \$3,500; value of buildings occupied \$2,000; ann. expenses \$1,900; bell and whistles alarm; total membership 53; 4 fire companies. Chief engineer, Alburn L. Page.

WATER SUPPLY—Source, pond; system, gravity to reservoir; reservoir cap 1,500,000 gals; 29 hydrants; pipe 6 3-4 miles; 1 meter; pressure 60 to 80 pounds; cost to construct \$35,000; ann expenses \$500. Pres, R. L. French; supt, S. J. Winslow.

Plymouth, Grafton Co., population 1,852; fire area 400 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber inferior 400 ft, cotton good 1,550 ft; value of fire department equipment \$2,100; total ann expenses of department \$1,200; value of buildings occupied \$1,000; total membership 38, full paid; bell alarm. Chief engineer, Frank H. Harran.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 3,500,000 gals; 27 hydrants; pipe 4 miles, 6 and 4 in; 145 taps; pressure 40 to 80 pounds; works owned by company; cost to construct \$40,000; ann expenses \$350. Supt, W. F. Langdon.

Portsmouth, Rockingham Co., population 12,000; fire area 425 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—4 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, 3 hose wagons, 1 supply wagon, 2 sleighs; hose, cotton good 9,700 ft; value of fire department equipment \$35,000; total ann expenses of department \$11,572; total membership 118, paid part time; Gamewell electric alarm; 25 street boxes; 5 fire companies. Chief engineer, H. A. Marden.

WATER SUPPLY—Source, springs and driven wells, 2 miles west of city; system pumping to standpipe, cap 500,000 gals; pumping engines, dy cap 1,000,000 gals; 138 hydrants; pipe 81 miles, 2 to 16 in; 808 valves; 1,600 taps; pressure 60 pounds; works owned by city; cost to construct \$350,000; expenses (1893) \$14,430. Supt, John O. Ayres. Also 10 reservoirs total cap 723,000 gals.

Rochester, Strafford Co., population 8,000; mercantile buildings, brick and wood, 1 to 4 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—hand engine, not in use, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, cotton good 7,800 ft, inferior 300 ft; 2 horses; total membership 177, paid full time. Chief engineer, W. C. Sanborn. *

WATER SUPPLY—Source, pond; system, gravity;

reservoir 50 acres; 53 hydrants; pipe 10 miles, 6 to 12 in dia; 1 meter; pressure 80 pounds; water-works owned by company; cost to construct \$100,000; ann expenses \$2,300. Supt. Albert Wallace.*

Bumney, Grafton Co., population 947; mercantile buildings, wood, 2 stories; private, same; wooden roofs are permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells and springs.

Suncook, Merrimack Co. Fire department—1 chemical engine; hose, good 500 ft; total membership 50, paid 12. Chief engineer, G. P. Appleton.*

WATER SUPPLY—Not described; steam pumping; 6 hydrants.*

Tilton, Belknap Co., population 2,000; fire area 500 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 and 2½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$800; total membership 30; bell alarm. Chief engineer, M. G. Keason.

WATER SUPPLY—Source, Knowles pond; system, gravity; reservoir cap 3,000,000 gals; hydrants 241; pipe 6 miles, 4 to 10 in dia; 110 pounds pressure; waterworks owned by company; cost to construct \$48,000; ann expenses \$500. Supt. Mark Keiser.*

Troy, Cheshire Co., population 1,000; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 1½ and 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hose wagon, fire hook and ropes; hose, cotton good 1,800 ft, various 400 ft; value of fire department equipment \$4,000; total ann expenses of department about \$1,462; total membership 20, paid part time 15; whistle and bell alarm. Chief engineer, Asa C. Dort.

WATER SUPPLY—Source, 6 cisterns and river flowing through town; 2 rotary pumps, cap 300 gals per minute; 1 duplex pump, cap 1,100 gals per minute, in Troy Mills yard; 760 ft, 8 inch iron pipe and 2 fire hydrants. Clerk of fire department, J. H. Bigelow

Warner, Merrimack Co., population 500; fire area 75 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck; hose, rubber good 50 ft.*

WATER SUPPLY—Source, wells and river. Town clerk, S. W. Davis.*

Whitefield, Oos Co., population 2,000; fire area 400 acres; mercantile buildings, wood, 2½ and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds;

hose, cotton good 1,500 ft, linen good 500 ft; value of fire department equipment \$2,000; total membership 23, volunteers. Chief engineer, William Byrne.*

Wilton, Hillsborough Co., population 2,000; fire area 640 acres; buildings, brick and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 3 hose carriages; hose, cotton good 600 ft, leather good 600 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; total membership 50; whistle and bell alarm. Chief engineer, Chas. E. Robbins.

WATER SUPPLY—Source, wells and river; 1 reservoir; 4 hydrants; pipe 50 rods.

Winchester, Cheshire Co., population 2,584; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ stories. Fire department—4 hand engines, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 400 ft, rubber good 200 ft, inferior 200 ft; total membership 100, volunteers; whistle and bell alarm. Chief engineer, W. N. Haskell.*

WATER SUPPLY—Source, river and cisterns; hydrants; 2 steam pumps; 1 pump operated by water-power. Town clerk, Geo. H. Snow.*

Wolfborough, Carroll Co., population 3,300; fire area 1,900 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, siamese couplings; hose, linen good 2,800 ft; 6 call horses; value of fire department equipment \$3,000; value of buildings occupied \$1,600; total ann expenses of department \$900; total membership 71, of which 68 are paid part time; whistle and bell alarm; 5 fire companies, 4 hose companies, 1 hook and ladder company. Chief engineer O. S. Young.

WATER SUPPLY—Source, pond; system, gravity; reservoir, cap 300,000 gals; 53 hydrants; pipe 16 miles, 4 to 10 in dia; 49 valves; 463 taps; pressure 80 to 100 pounds; works owned by town; cost to date \$70,000; ann expenses \$1,200. Supt. J. O. Heath.

Woodsville, Grafton Co., population estimated 1,000; fire area 600 acres; buildings, brick and wood, 1½ and 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 700 ft, leather good 500 ft; value of fire department equipment \$1,600; value of buildings occupied \$900; total ann expenses of department about \$275; total membership 30, paid; bell and whistle alarm. Chief, James F. Leonard.

WATER SUPPLY—Source, river; system, direct; pumping engines, dy cap 1,500,000 gals; 23 hydrants; pipe 5½ miles, 4 to 8 in dia; 203 taps; pressure, domestic 70, fire 100 pounds; works owned by company; cost to date \$45,000. Pres of waterworks, G. B. Cummings; supt, Ezra B. Mann.

The following places have no fire protection: Hooksett, Merrimack Co., population 1,893 Salmon Falls, Stafford Co., population 2,003; Wilton, Merrimack Co., population 840.

NEW JERSEY.

Arlington, Hudson Co. (In Kearney township).

Asbury Park, Monmouth Co., population 4,000; fire area 640 acres; mercantile buildings, brick, stone and wood, 3 stories; private, brick and wood, 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hook and ladder truck, 5 hose carriages, all kinds, 1 hose wagon; hose, cotton good 2,000 ft, rubber good 1,000 ft; 6 horses; value of fire department equipment \$18,000; value of buildings occupied \$5,000; total ann expenses of department \$4,500; membership 150, paid part time 4, paid full time 4, remainder volunteers; Gamewell alarm; 10 street boxes; 6 fire companies, 2 engine companies, 1 hook and ladder company, 3 hose companies. Chief engineer, E. C. Vancleave.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe and direct if needed; standpipe cap 108,000 gals; pumping engine, dy cap 1,700,000 gals; 62 hydrants; pipe 11 miles, 3 to 12 in dia; 59 valves; 920 taps; pressure 60 pounds; works owned by city; cost to construct \$92,000, to

date \$108,000; ann expenses \$6,000. Supt. G. H. Coffin.

Atlantic City, Atlantic Co., population 15,000; fire area 475 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, wood, 2½ to 3 stories; wooden roofs are permitted but tin principally used; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck in reserve, 1 aerial truck, 6 hose carriages, 1 hose wagon; hose, cotton good 14,000 ft, 18 horses, value \$5,000; value of fire department equipment \$23,000; value of buildings occupied \$25,000; total ann expenses of department \$21,100; total membership 185, paid full time 15; Gamewell alarm; 36 street boxes; 5 fire companies. Chief engineer, Edward G. Pettit.

WATER SUPPLY—Source, driven well and pond; system, pumping to standpipe; standpipe cap 485,000 gals; pumping engine, dy cap about 15,000,000 gals; 150 hydrants; pipe 25 miles, 2 to 30 in dia; 150 valves; 2,000 taps; pressure 40 to 50 pounds; Edison pressure recording gauge; works owned by company. Supt. Geo. T. Prince.

Bayonne City, Hudson Co., population 23,000; fire area 3 miles by 1½ miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—5 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 16 chemical extinguishers, 4 hook and ladder trucks, 7 hose carriages, all kinds, 1 hose wagon; hose, rubber good 5,000 ft, inferior 200 ft, cotton good 500 ft; 5 horses, value \$1,000; value of fire department equipment \$20,000; value of buildings occupied \$42,000; total ann expenses of department \$7,000; total membership 450, volunteers; bell and telephone alarm; 8 fire companies, Chief engineer, John J. Knight.

WATER SUPPLY—Source, Passaic river; system, gravity; 225 hydrants; pipe 28 miles, 6 to 20 in dia; 250 valves; 1,500 taps; pressure 35 pounds; works owned by city; cost to construct \$180,000; to date \$200,000; ann expenses \$5,500. Supt, Charles McBride.

Bellville, Essex Co., population 4,000; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$3,200; value of 2 buildings occupied \$1,700; total ann expenses of department \$1,000; total membership 100, volunteers. Chief engineer, E. S. Collard.

WATER SUPPLY—Source, not given; system, pumping to reservoir, force pumps; 18 hydrants; pipe 2 miles, 6 in dia; pressure 70 pounds. Town clerk, Wm. D. Lister.*

Belvidere, Warren Co., population 1,768; fire area 600 acres; mercantile buildings, wood, 2½ to 5 stories; private, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 700 ft, rubber good 800 ft, inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$5,000; total membership 50, volunteers; bell alarm. Chief engineer, Jacob Bellis; fire marshal, Thos. H. Hayes.*

WATER SUPPLY—Source, Delaware river; system, pumping to standpipe, cap 33,840 gals; pumping engines, dy cap 1,000,000 gals; 28 hydrants; pipe 3½ miles; 40 valves; 230 taps; pressure 72 pounds; waterworks owned by company; cost to construct \$23,500; ann expenses \$1,600. Supt, D. G. Heffner.

Beverly, Burlington Co., population 2,000; fire area 1 sq mile; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—6 chemical extinguishers (bad order), 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,900 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; total membership 140, volunteers; bell alarm; 2 hose companies, 1 hook and ladder company. Chief engineer, G. D. Logan.

WATER SUPPLY—Source, Delaware river; system, pumping to standpipe and direct; standpipe cap 150,000 gals; pumping engines, dy cap 2,000,000 gals; 47 hydrants; pipe 6½ miles, 16 to 4 in dia; 36 valves; pressure 47½ pounds; works owned by company; cost to construct \$50,000. Supt, James Finley.

Blairstown, Warren Co., population 1,662; fire area 20 acres; building, wood, 2 stories; wooden roofs permitted, slate used largely. Fire department—1 hose carriage, 24 buckets, 16 ladders; hose, cotton good 1,000 ft, inferior 60 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,200; total membership 25, volunteers. Foreman, Robert Craig, Jr.

WATER SUPPLY—Source, stream and well; system, pumping to standpipe, cap 112,000 gals; pumping engines, dy cap 576,000 gals; 12 hydrants; pipe 1 mile, 4 to 6 in dia; 1 valve; 25 taps; pressure 67 pounds; works owned by J. I. Blair; cost to construct \$25,000. Supt, Wm. H. Vail.

Bloomfield, Essex Co., population 8,500; fire area 13½ sq miles; mercantile buildings, wood and brick, 3 stories; private, wood, 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 4,200 ft, inferior 300 ft; value of fire department equipment \$8,500; value of buildings occupied \$7,500; total ann expenses of

department \$3,000; total membership 96, volunteers; Gamewell alarm; 19 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, William U. Oakes.

WATER SUPPLY—Source, springs; system, pump direct; pumping engines, dy cap 6,000,000 gals; 150 hydrants; pipe 28 miles, 4 to 12 in dia; 550 taps; pressure, domestic 50, fire 100 pounds; works owned by company; cost to construct \$100,000. Supt, Geo. Olcott.

Boonton, Morris Co., population 3,307; fire area 500 acres; mercantile buildings, brick, wood and concrete, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber new 800 ft; 2 independent companies with hand engines and buckets; value of fire department equipment \$2,500; value of buildings occupied \$10,000; total expenses in 1893 \$1,800; total membership 70, volunteers. Chief engineer, Jacob L. Hult. The following apparatus is the property of the Boonton Iron Works: 1 hook and ladder truck, 4 hose carriages; hose, leather good 1,000 ft.

WATER SUPPLY—Source, wells and cisterns. City clerk, Geo. H. Fitzpatrick. (Works have been contracted for.)

Bordentown, Burlington Co., population Bordentown township 5,060; mercantile buildings, brick and wood, 2 and 3 stories; private, wood and brick, 2 and 3 stories; tin or slate roofs; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 4 hose carriages, slamese couplings used; hose, cotton good 1,500 ft, leather good 450 ft, inferior 1,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$3,500; total ann expenses of department \$250; total membership 180, volunteers; bell alarm. Chief engineer, Joseph Vandegrift.*

WATER SUPPLY—Source, Crosswick's creek; system, pumping to reservoir and direct; reservoir cap 500,000 gals; pumping engines, dy cap 1,700,000 gals; 51 hydrants; pipe 7 miles, 6 in dia; 30 valves; 2 meters; quality of water good; National filter; pressure, domestic 33 pounds, fire direct; waterworks owned by company. Supt, John M. Steele.

Bound Brook, Somerset Co., population 1,600; fire area 4 sq miles; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 to 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical tanks, 1 hook and ladder truck, 2 hose carriages; hose, linen good 1,600 ft, inferior 650 ft; 1 horse, value \$250; value of equipment \$8,000; value of buildings occupied \$5,000; ann expenses \$1,000; membership 110; bell and whistle alarm; 3 fire companies. Chief, J. A. Oldham.

WATER SUPPLY—Source, Middle Brook; system, gravity; 2 reservoirs, cap 1,000,000 and 11,000,000 gals respectively; 50 hydrants; pipe 11 miles, 2 to 4 in dia; 137 valves; 417 taps; pressure, domestic 40, fire 51 pounds; works owned by company; cost to construct \$57,500; ann expenses \$1,100. Manager, S. Ayres, Jr.

Bridgeton, Cumberland Co., population 13,000; mercantile buildings, brick and wood, 3 stories; private, wood, 2½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3,000 ft; 4 horses; total expenses for past year \$2,327.02; total membership 30, paid part time; Gamewell alarm; 13 street boxes. Chief engineer, W. H. Elwell.

WATER SUPPLY—Source, East lake and springs; system, pumping to reservoir, cap 1,500,000 gals; pumping engines, dy cap 3,500,000 gals; 167 hydrants; pipe 21 4-10 miles, 3 to 16 in dia; 258 valves; 1,678 taps; pressure 16 to 45 pounds; waterworks owned by city; cost to construct \$70,000, to date \$132,000; ann expenses \$4,000. Supt, Timothy Woodruff.

Burlington, Burlington Co., population 8,500; fire area 400 acres; mercantile buildings, brick and wood, 3 and 4 stories; private, brick, and wood, 2 and 3 stories; wooden roofs permitted, but mostly tin. Fire department—2 steam fire engines, 1 chemical engine on wheels, 1 hook and ladder truck, 7 hose carriages; hose, cotton good

5,500 ft. leather poor 500 ft.; 4 horses used; value of fire department equipment \$12,000; value of buildings occupied \$10,000; total ann expenses of department \$2,500; total membership 322, volunteers; chief paid; Pierce & Jones electric alarm; 11 street boxes; 8 engine companies, 1 hook and ladder company. Chief engineer, Alva A. Thorn.

WATER SUPPLY—Source, Delaware river; system, pumping to standpipe, cap 282,000 gals; pumping engines, dy cap 2,000,000 gals; 112 hydrants; pipe 17 miles, 4 to 16 in dia; 1,000 taps; pressure, 86 pounds; waterworks owned by city; cost to construct to date \$110,000; ann expenses \$3,000. Supt, Geo. A. Allison.

Caldwell, Essex Co., population 1,000; fire area 832 acres; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—5 chemical extinguishers, 1 hook and ladder truck, 20 rubber buckets, axes, bars, poles etc. Boro clerk, M. B. Lindsley.

WATER SUPPLY—Source, wells and cisterns. Boro clerk, Morris B. Lindsley.

Camden, Camden Co., population 58,313; fire area 104 sq miles; mercantile buildings, brick and stone, 3 and 4 stories; private, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 steam fire engines (1 in reserve), 1 aerial hook and ladder truck, with (1 in reserve), 1 double 60 gal chemical engine, 8 hand chemical extinguishers, 3 hose carts, 1 two horse hose wagon, 1 supply wagon, 1 chief engineer wagon (1 in reserve), slamese couplings used; hose, cotton rubber lined 5,000 ft in good condition, 2,500 second grade; 19 horses, value \$57,000; value of fire department equipment \$50,000; value of buildings occupied \$50,000; total expenses of department for one year \$55,000; total membership 47, full paid 35, part paid 12; Gamewell fire alarm and telegraph; 43 street boxes. Chief engineer, Samuel S. Elfreth.

WATER SUPPLY—Source, Delaware river; system, pumping to reservoir and standpipe; reservoir cap 6,000,000 gals; pumping engines, dy cap 17,000,000 gals; 58 hydrants; pipe 67.09 miles, 3 to 30 in dia; 1,365 valves; pressure 30 to 80 pounds; waterworks owned by city; cost to construct to date \$500,000; ann expenses \$22,000. Supt, Wm. W. Mines. Purchased from company at a cost of \$2,000,000.

Cape May City, Cape May Co., population 2,600; mercantile buildings, brick and wood, 3 and 4 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 40 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, all kinds; hose, rubber good 500 ft, inferior 60 ft, cotton good 1,600 ft, linen good 500 ft; 5 horses, value \$1,600; value of fire department equipment \$2,000; value of buildings occupied \$5,000; total ann expenses of department \$3,000; total membership 57, paid full time 3, volunteer members 54; Gamewell alarm; street boxes 9; 7 fire companies, 2 engine companies, 2 hook and ladder companies, 3 hose companies. Chief engineer, Joseph H. Hanes.*

WATER SUPPLY—Source, wells; system, gravity to tank, auxiliary pumping tanks, cap 120,000 gals; pumping engines, dy cap 3,500,000 gals; 85 hydrants; pipe 9 miles, 4 to 10 in dia; 25 valves; 798 taps; pressure, domestic 24, fire 80 pounds; waterworks owned by city; original cost to construct \$35,000; ann expenses \$1,500. Supt, J. Ash-ton Williams.

Carlstadt, Bergen Co., population 4,500; fire area 1 mile sq; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 2 hook and ladder trucks, 1 hose carriage; hose, good 1,200 ft, inferior 350 ft; value of equipment \$6,685; value of buildings occupied \$4,000; ann expenses \$789; total membership 105, volunteers. Chief engineer, Chas. Kley.

WATER SUPPLY—Source, river and 3 cisterns.*

Cedarville, Cumberland Co., population 1,728; mercantile buildings, wood, 2½ stories; private, wood, 2½ stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department. Have set of ladders.

WATER SUPPLY—Source, wells. Town clerk, Henry S. Long.

Chambersburg, Mercer Co., annexed to Trenton.

Clayton, Gloucester Co., population of Clayton township 2,299; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—2 hand engines, buckets.

WATER SUPPLY—Source, wells. Factories have artesian wells; cap of pump 500 gals per min.

Clinton, Hunterdon Co., population 1,000; fire area 200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 2½ stories; roofs, tin and slate; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,500 ft; total membership 40. Pres of com, P. A. Esty, Jr.; foreman, H. Altomas; asst, J. H. Cass.

WATER SUPPLY—Source, south branch of Raritan river, which runs through the town.

Cramer's Hill, (Including Pavonia) township 8,500; fire area 2 miles sq; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds, 2 jumpers (P. R. R. have 2 spiders, 3,500 ft hose); hose, cotton good 2,500 ft; value of fire department equipment \$12,000; value of buildings occupied \$10,000; total membership 200, volunteers; Gamewell alarm; 9 street boxes; 8 fire companies. Chief engineer, Samuel M. Welch.

WATER SUPPLY—Source, wells and cisterns.*

Cranford, Union Co., population 2,400; fire area 1 sq mile; mercantile buildings, brick and wood, 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$1,332; total membership 44, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, Daniel Torbush.

WATER SUPPLY—Source, Union Water Co., for description of works see Plainfield; 38 hydrants; pressure 85 pounds. Mayor, Edmund B. Horton.

Dover, Morris Co., population 5,000. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton 500 ft, rubber 1,000 ft, leather good 500 ft; total membership 185. Chief engineer, W. H. Lambert.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 6,000,000 gals; 69 hydrants; pipe 83-4 miles, 4 to 10 in dia; 65 valves; 254 taps; pressure 5 to 90 pounds; waterworks owned by company. Supt, P. J. H. Bassett.

East Orange, Essex Co., population 13,282; buildings, brick and wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 4 hose wagons, 1 hose carriage; hose, cotton rubber lined good 6,000 ft; membership 128; paid full time 8; telegraph alarm. Chief, H. Mills.

WATER SUPPLY—Source, springs and wells; system, direct pumping; pumping engines, dy cap 6,000,000 gals; 360 hydrants; pipe 64 miles, 4 to 12 in dia; 713 valves; 150 meters; pressure, domestic 75 to 85, fire 80 to 100 pounds; pressure recording gauge; waterworks owned by company; cost to construct \$500,000. Pres of com, F. M. Shepherd; supt, Geo. P. Olcott.*

Easton town, Monmouth Co., population 2,953; fire area 720 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 600 ft, inferior 200 ft; value of fire department equipment \$2,500; value of buildings occupied \$600; total membership 56, volunteers. Chief engineer, Robert Fay.

WATER SUPPLY—Source, 2 brooks, wells and springs.

Egg Harbor, Atlantic Co., population 1,500; fire area 2 square miles; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers (also 2 private), 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 300 ft,

inferior 800 ft, rubber good 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$4,000; total ann expenses of department \$300; total membership 54, volunteers; bell alarm. Chief engineer, Joseph Huettinger.

WATER SUPPLY—Source, driven wells, force pumps. Town clerk, V. P. Hofman.

Elizabeth, Union Co., population 45,000; fire area 6,240 acres; buildings, brick and wood, 2 to 4 stories; wooden roofs not permitted within 200 ft of the main street. Fire department—6 steam fire engines, 4 chemical extinguishers, 2 hook and ladder trucks, 6 hose carriages, all kinds; hose, rubber good 8,500 ft, poor 1,000 ft, cotton good 1,500 ft, poor 500 ft; 25 horses, value \$6,000; value of equipment \$40,000; value of buildings occupied \$65,000; total ann expenses of department \$35,000; total membership 525, paid full time 12, paid part time 8; Gamewell alarm; 47 street boxes. Chief engineer, Joseph Brown. (A new steamer is contemplated).

WATER SUPPLY—Source, Elizabeth river; system, pumping to reservoir and direct; impounding reservoir, cap 200,000,000 gals; pumping engines, dy cap 7,000,000 gals; 250 hydrants; pipe 68 miles; 45 meters; pressure 35 pounds; waterworks owned by company; cost to construct \$1,000,000; ann expenses \$40,000. Pres of com, John Kean, Jr; supt, Wm. Whelan.

Englewood, Bergen Co., population 4,785; fire area 12 square miles; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinances. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft, cotton good 1,000 ft; 4 horses, value \$800; value of fire department equipment \$2,000; value of buildings occupied \$1,000; expenses for last year \$300; total membership 61, volunteers; bell alarm. Chief engineer, Jacob Taylor.

WATER SUPPLY—Source, Hackensack river; system, pumping to reservoir; 2 pumping engines, dy cap 10,000,000 gals; 50 hydrants; pipe 5 miles, 4 to 24 in dia; 80 valves; 400 meters; pressure, domestic 10 to 100, fire 20 to 100 pounds; waterworks owned by company. Supt, C. B. Brush.

Flemington, Hunterdon Co., population estimated 2,000; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, fabric good 900 ft; 2 buildings occupied; total membership 90, volunteers. Chief engineer, F. A. Rice.

WATER SUPPLY—Source, river and springs; system, gravity, pumping to reservoirs; 9 hydrants; 10 miles pipe, 4 to 6 in dia. Supt, J. B. Hopewell.

Fort Lee, Bergen Co., population 2,000; fire area 4 square miles; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinances. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, rubber good 56 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total ann expenses of department \$200; total membership 60, volunteers; bell alarm. Chief engineer, Jacob Beyer.

WATER SUPPLY—Source, wells and cisterns.

Freehold, Monmouth Co., population 2,932; fire area 700 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinances. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, alamese couplings used; hose, rubber good 1,400 ft, cotton fair 500 ft; value of fire department equipment \$10,000; value of buildings occupied \$6,000; ann expenses \$800; total membership 183, volunteers; bell alarm. Chief engineer, John H. Hulise.

WATER SUPPLY—Source, 8 artesian wells; system, pump to standpipe, cap 234,000 gals; pumps, dy cap 750,000 gals; 57 hydrants; pipe 10 miles, 10 to 3 in dia; 87 valves; 231 taps; pressure 45 to 55 pounds; works owned by city; cost to construct \$46,000, to date \$47,000; ann expenses \$1,750. Supt, S. Perrine Voorhees.

Frenchtown, Hunterdon Co., population 1,023; mercantile buildings, brick and wood, 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage; hose, good 1,200 ft; value of fire department

equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$100; total membership 60, volunteers. Chief engineer, Geo. W. A. Lyons.

WATER SUPPLY—Source, Delaware river and mill race.

Gloucester City, Camden Co., population 6,564; fire area 1 mile; buildings, brick and wood, 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton 500 ft, rubber good 1,600 ft; value of equipment \$4,300; value of buildings occupied \$6,000; total ann expenses \$325; mills own 5 hose carriages and 5,000 ft hose; total membership 34, volunteers; Gamewell alarm; 6 street boxes. Chief engineer, P. Mealey.

WATER SUPPLY—Source, springs and Newtown creek; system, pumping from reservoir to standpipe; reservoir cap 2,000,000 gals; standpipe cap 145,000 gals; pumping engines, dy cap 2,000,000 gals; 66 hydrants; pipe 12 miles; pressure, domestic 45, fire 80 to 90 pounds; waterworks owned by city; cost to construct \$82,000; ann expenses \$1,908. Supt, James Finley.

Hackensack, Bergen Co., population 7,500; mercantile buildings, wood, 2 stories; private same; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hook and ladder trucks, 3 hose carriages, 1 hose wagon, 1 fire patrol; hose, cotton good 3,100 ft, rubber good 500 ft; value of fire department equipment \$9,000; value of buildings occupied \$20,000; total ann expenses \$7,500; total membership 2,002, volunteers; Gamewell alarm; 18 street boxes. Chief engineer, Irving Watermire.

WATER SUPPLY—Supply furnished by Hackensack Water Co., reorganized (see Hoboken); 61 hydrants; pipe 5 miles; pressure 42 pounds; Edison pressure recording gauge. Town clerk, M. Demarest.

Hackettstown, Warren Co., population 2,417. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 1,500 ft, rubber good 100 ft; total membership 40, volunteers. Chief engineer, W. F. Hairhouse.

WATER SUPPLY—Source, mountain streams; system, gravity; 40 hydrants; pipe 10 miles; pressure 40 pounds; waterworks owned by village; cost to construct \$54,000. Supt, Wm. Sidner.

Haddonfield, Camden Co., population 2,502; fire area radius 1 mile; buildings, wood, 2½ stories; new roofs are slate or tin; fireworks ordinance. Fire department—1 force pump, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,000 ft, rubber inferior 500 ft; value of fire department equipment \$2,900; value of buildings occupied \$1,500; total ann expenses of department \$128; total membership 154, paid part time 1, volunteers 77. Chief engineer, Thos. Hill.

WATER SUPPLY—Source, springs, cisterns; system, pumping to standpipe, cap 145,000 gals; impounding reservoir, cap 20,000,000 gals; pumping engines, dy cap 1,500,000 gals; 22 hydrants; pipe 6 miles, 6 to 8 in dia; 21 valves; 350 taps; pressure 35 pounds; works owned by company; cost to construct \$40,000. Pres of com, Wm. H. Snowdon; supt, Bell Broa.

Hammononton, Atlantic Co., population 3,833; buildings, brick, stone and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 950 ft; value of fire department equipment \$800; value of buildings occupied \$1,000; total membership 50, volunteers. Chief, S. E. Brown.

WATER SUPPLY—Source, well and cisterns.

Harrison, Hudson Co., population 9,000; fire area 1¼ sq mile; buildings, wood, 2½ and 3 stories; wooden roofs permitted. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft, inferior 200 ft, rubber good 1,500, inferior 1,000 ft; value of fire department equipment \$5,000; total ann expenses of department \$5,500; total membership 100, volunteers; bell and whistle alarm. Chief, Wm. Bowers.

WATER SUPPLY—Source, Jersey City waterworks; 83 hydrants; pipe 8 miles; 512 taps; pressure 45 pounds. Supt, Geo. H. Cooper; town clerk, Bernard Walsh.

Helmetta, Middlesex Co., population 600; fire

area 35 acres; mercantile buildings, brick and wood, 6 stories; private, wood, 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 3 chemical extinguishers, 3 hose carriages; hose, rubber good 900 ft; value of fire department equipment \$3,000; total membership 191; whistle alarm. Chief engineer, Wm. H. Clemens.*

WATER SUPPLY—Source, ponds and tanks; system, pumping to standpipe; 15 hydrants; pipe 2 in dia; 30 valves; works owned by company. Supt, Oscar Erickson.*

Hightstown, Mercer Co., population 1,875; fire area 200 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, with 85 ft of ladders; 3 hose carriages; hose, cotton good 2,000 ft, inferior 1,800 ft, leather good 600 ft, inferior 400 ft; value of fire department equipment \$7,500; value of buildings occupied \$3,000; total membership 70, volunteers; bell alarm. Chief engineer, J. V. D. Beekman.

WATER SUPPLY—Source, pond, stream and wells; 8 cisterns, cap 1,100 gals each.

Hoboken, Hudson Co., population estimated 50,000; fire area 720 acres; mercantile buildings, iron, brick and stone, 5 stories; private, stone and brick, 3 and 4 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 2 aerial trucks, 3 hose wagons; hose, rubber good 5,600 ft; 16 horses, value \$1,800; value of fire department equipment \$31,840; value of buildings occupied \$87,000; total ann expenses of department \$80,668; total membership 45, paid full time; Gamewell alarm; 34 street boxes. Chief engineer, Irvin D. Applegate, Jr.

WATER SUPPLY—Source, Hackensack river; system, pumping to reservoir; reservoir cap 15,000,000 gals; standpipe cap 150,000 gals; pumping engines, dy cap 12,000,000; 724 hydrants; pipe 140 miles, 24 to 4 in dia; 953 valves; 5,530 meters; pressure, domestic 35 to 50, fire 50 to 75 pounds; works owned by company. Pres, Robt. W. DeForest; supt and engineer, Charles B. Brush.*

Hopewell, Mercer Co., population 4,338. Fire department—1 hook and ladder truck; value of fire department equipment \$1,000; total membership 30, volunteers; bell alarm. Chief engineer, S. Smith Ege.*

WATER SUPPLY—Source, springs; reservoir cap 800,000 gals; pipe 3 miles; 10 valves; 40 taps; works owned by company; cost to construct \$7,500. Pres, L. Labau; supt, L. P. Hanley.*

Jersey City, Hudson Co., population 180,000; fire area 7 sq miles; mercantile buildings, brick and wood, 2 to 6 stories; private, brick and wood, 2 to 6 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—13 steam fire engines, 2 chemical engines on wheels, 50 chemical extinguishers, 5 hook and ladder trucks, 1 aerial truck, 5 hose carriages, 14 hose wagons, siamese couplings used; hose, cotton good 27,000 ft, rubber good 23,000 ft; 55 horses; total membership 218, paid full time 83, paid part time 128; Gamewell alarm; 104 street boxes. Chief engineer, John Conway.

WATER SUPPLY—Source, Passaic river and tributaries; system, gravity, pumping to reservoir; three 170,000,000 gals reservoirs; pumping engines, dy cap 32,000,000 gals; 1,943 hydrants; pipe 202 miles, 4 to 36 in dia; 1,600 valves; pressure, domestic 15 to 30, fire 15 to 45 pounds; 24,200 taps; Edison pressure recording gauge; waterworks owned by city and supplies Bayonne City and Kearney township; cost to construct \$4,950,000, to date \$5,400,000; ann expenses \$500,000. Supt, Wm. Kearney.

Kearney Township, Hudson Co., population 9,800; fire area 1,000 acres; mercantile buildings, wood and brick, average 3 stories; private, wood and brick, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, all kinds; other apparatus, 2 jumpers; hose, cotton good 4,700 ft; value of fire department equipment \$10,000; value of buildings occupied \$13,000; total ann expenses of department \$1,700; total membership 225, all volunteers; 7 fire companies, 2 hook and ladder companies, 5 hose companies. Chief engineer, Walter A. Walsh.

WATER SUPPLY—The Water Supply is leased from the City of Jersey City, and is obtained from the Passaic River.

Keyport, Monmouth Co., population 4,000; fire area 1 mile sq; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton new 400 ft, rubber good 1,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$10,000; total ann expenses of department \$500; total membership 125, volunteers; bell alarm. Chief engineer, Henry A. Young.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; standpipe cap 293,000 gals; pumping engines, dy cap \$500,000 gals; hydrants 86; pipe 8 1/2 miles, 12 to 4 in dia; 80 taps; pressure 45 to 80 pounds; waterworks owned by city; cost to construct \$55,000. Supt, T. H. Roberts.

Lakewood, Ocean Co., population 1,500; fire area 1,200 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$1,000; total membership 30, volunteers; Gamewell alarm; 1 fire company. Chief engineer, J. H. Todd.

WATER SUPPLY—Source, south branch Metedeconk river; system, pumping to standpipe, cap 144,000 gals; pumping engines, dy cap 1,000,000 gals; 45 hydrants; pipe 2 8-10 miles, 4 to 8 in; 140 taps; pressure 45 pounds (125 if needed); works owned by company. Pres, Isaac A. Van Hise.

Lambertville, Hunterdon Co., population 4,142; fire area 320 acres; buildings, brick and wood, 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 chemical extinguishers; 2 hose carriages; hose, cotton good 1,250 ft, rubber good 250 ft, inferior 300 ft; value of fire department equipment \$4,400; value of buildings occupied \$13,650; total ann expenses of department \$1,357; total membership 135, volunteers, chief paid \$25 per year; electric alarm; 10 street boxes 3 fire companies. Chief engineer, W. S. Robertson.

WATER SUPPLY—Source, spring and Swan-oreek; system, gravity; 2 reservoirs, cap 117,000,000 gals; 80 hydrants; pipe 8 miles, 4 to 8 in dia; 28 valves; 183 taps; quality of water good; pressure 71 pounds; waterworks owned by company cost to construct \$50,000; ann expenses \$1,000 Supt, T. Corryell.

Long Branch, Monmouth Co., population 20,000; fire area 9,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—3 steam fire engines, 1 chemical engine on wheels, 8 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 4 hose carriages, all kinds, 3 hose wagons; hose, cotton good 1,500 ft, rubber good 5,000 ft, inferior 5,000 ft; 19 horses, value \$4,000; value of fire department equipment \$27,000; value of buildings occupied \$17,000; total ann expenses of department \$9,280; total membership 850, paid full time 10; Gamewell alarm; street boxes 12. Chief engineer, Charles J. Luther.

WATER SUPPLY—Source, brook and springs; system, pumping to standpipe; standpipe cap 143,000 gals; pumping engines, dy cap 5,000,000 gals; 115 hydrants; pipe 31 miles, 4 to 20 in dia; 105 valves; pressure, domestic 40, fire 65 pounds; waterworks owned by company; cost to construct \$350,000. Pres of com, Geo. F. Baker; secy and supt, Whitney Conant.

Lorraine, Union Co., population 500; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton new 500 ft, 1 horse; total membership 25, all volunteers; bell alarm. Chief engineer, J. H. Endrauff.

WATER SUPPLY—Source, Plainfield, system, pumping to standpipe; hydrants; pipe 1 mile, 1 in dia; pressure 80 pounds; waterworks owned by company; cost to construct to date \$3,000. Supt, W. J. Lansley, Central Bldg N. Y.

Lyndhurst, Bergen Co., population 2,000;

fire area 400 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft. inferior 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,800; total ann expenses of department \$800; total membership 70, volunteers; bell and whistle alarm. Chief engineer, John E. Travers.

WATER SUPPLY—Source, wells and cisterns.

Madison, Morris Co., population 2,200; fire area 4 sq miles; buildings, brick and wood, 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; 1,200 ft good cotton hose; value of equipment \$1,500; value of buildings occupied \$1,000; membership 35, volunteers; bell and whistle alarm. Chief engineer, M. B. Crane.

WATER SUPPLY—Source, well; system, pumping to standpipe, cap 292,535 gals; pumping engines, dy cap 1,000,000 gals; pipe 19 miles, 4 to 10 in dia; hydrants 130; valves 44; 312 taps; pressure 85 pounds; works owned by borough; cost to construct \$30,000. Mayor, Jas. P. Albright; borough clerk, F. E. Day.

Manasquan, Monmouth Co., population about 1,600; fire area 5.120; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 chemical engine on wheels, 1 chemical extinguisher; hose, rubber good 200 ft; value of fire department equipment \$1,850; value of buildings occupied \$1,500; total membership 50, volunteers; bell alarm. Chief, Wm. H. Reer.

WATER SUPPLY—Source, wells, also reservoir supplied by brook.

Matawan, Monmouth Co., population 3,500; fire area 100 acres; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, poor 250 ft; value of fire department equipment \$850; total ann expenses of department about \$200; total membership 80, volunteers; bell alarm. Chief engineer, Chas. A. Scott.

WATER SUPPLY—Source, cisterna. Town clerk, W. A. Rodgers.

Medford, Burlington Co., population 1,000; buildings, stone and wood, 2 and 3 stories; private, wood, 24 stories. Fire department—1 hand engine, 1 hook and ladder truck; hose, rubber good 200 ft; total ann expenses of department \$5; total membership 40, volunteers. Chief, Jesse Storkhouse.

WATER SUPPLY—Source, wells and cisterna.

Merchantville, Camden Co., population 1,225; fire area 150 acres; buildings, brick and wood; 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, leather good 1,200 ft, inferior 300 ft; value of equipment \$1,200; value of buildings occupied \$2,500; total ann expenses \$350; total membership 31, volunteers. Chief engineer, G. C. Mick.*

WATER SUPPLY—Source, stream fed by springs, system, pump to standpipe; cap 40,000 gals; cap of reservoir 500,000 gals; pumps, dy cap 1,000,000 gals; pipe 10 miles, 8 to 4 in; 50 hydrants; valves 25; taps 420; pressure 40 to 100 pounds; works owned by company; cost to construct \$35,000; cost to date \$52,000; ann expenses \$2,000. Supt, Edward S. Thrope.

Metuchen, Middlesex Co., buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck; value of fire department equipment \$500; value of buildings occupied \$2,500; total ann expenses of department \$100; total membership 28, volunteers; bell alarm. Foreman, B. C. Voorhees.

WATER SUPPLY—Source, wells. Town clerk, John Robinson.*

Millford, Hunterdon Co., population 700; buildings, wood, stone and brick, 2 and 3 stories. Fire department—1 hand engine, other apparatus, hand grenades; hose, rubber good 500 ft; value of fire department equipment \$800; total membership 50, volunteers; bell and whistle alarm. Chiefs, Jonas Hager, C. H. Darmon.

WATER SUPPLY—Source, creek and mill race. Town clerk, Wm. W. Ulmer.*

Millville, Cumberland Co., population 10,100; fire area 2 sq miles; mercantile buildings, brick, 3 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,000 ft, leather good 1,100 ft, poor 500 ft; value of fire department equipment \$7,000; expenses for past year \$1,150; total membership 41, volunteers; electric alarm; 6 street boxes. Chief engineer, Geo. W. Yeiter.

WATER SUPPLY—Source, well and river; system, pumping to standpipe from impounding reservoir; pumping engines, dy cap 1,500,000 gals; 66 hydrants; pipe 10 miles, 3 to 12 in dia; valves; quality of water good; pressure 60 pounds; Edison pressure recording gauge. Supt, R. W. Meridith.

Montclair, Essex Co., population 11,000; fire area 4,000 acres; buildings, brick and wood, 1 to 4 stories; wooden roofs permitted; no fireworks ordinance. Fire department—16 chemical extinguishers, 1 hook and ladder truck, 4 hose wagons, all kinds; hose, cotton good 4,000 ft, rubber good 1,500 ft; 6 horses, value \$1,000; value of equipment \$8,000; value of buildings occupied \$4,000; total ann expenses \$9,000; total membership 125, volunteers; 4 hose companies, 1 hook and ladder company; Gamewell alarm; 31 street boxes. Chief engineer, Philip Keller, Jr.

WATER SUPPLY—Source, wells; system, gravity, pumping to standpipe and direct, cap 350,000 gals; pumping engines, dy cap 3,500,000 gals; 303 hydrants; pipe 88 miles, 4 to 16 in dia; 159 valves; 150 meters; 1,170 taps; works owned by company; pressure 70 to 130 pounds; cost to construct \$200,000. Pres, W. G. Snow; supt, James Owen.

Moorestown, Burlington Co., population 3,500; fire area 1 sq mile; mercantile buildings, brick and wood, 3 stories; private, brick and wood, 24 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hand force pumps, 1 chemical engine on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, all kinds; hose, rubber good 600 ft, inferior 100 ft, cotton good 800 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$1,200; total membership 100, volunteers; Gamewell alarm; 11 street boxes. Chief engineer, B. Frank Ellis.

WATER SUPPLY—Source, pond bed by stream; system, pumping to tank; reservoir cap 3,000,000 gals, standpipe cap 75,000 gals; pumping engines, dy cap 1,000,000 gals; 57 hydrants; pipe 8 miles, 4, 6 and 8 in dia; 35 valves; pressure, domestic 45 pounds; works owned by company; original cost to construct \$44,000; ann expenses \$1,800. Pres of com, Newton Stokes; engineer, J. C. Holston; secy and treas, S. Robbins.

Morristown, Morris Co., population about 10,000; mercantile buildings, wood, stone and brick, 24 and 3 stories; private, wood, 24 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 5 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 patrol wagon; hose, cotton good 500 ft, inferior 500 ft, rubber good 3,000 ft, inferior 500 ft; value of fire department equipment \$18,000; value of buildings occupied \$35,000; total ann expenses of department \$10,000; total membership 219, volunteers; Gamewell alarm; 12 street boxes. Chief engineer, Daniel S. Voorhees.

WATER SUPPLY—Source, springs; system, gravity to distributing from impounding reservoir; pumping engines, dy cap 1,500,000 gals; 100 hydrants; pipe 28 miles; 345 meters; pressure 30 to 40 pounds; cost to construct \$230,000; ann expenses \$2,500. Supt, W. A. Dunn.*

Mt. Holly, Burlington Co., population 7,000; fire area 150 acres; mercantile buildings, brick, 24 and 3 stories; private, wood, 24 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical extinguisher, 2 hook and ladder trucks, 4 hose carriages, all kinds; hose, cotton good 3,700 ft; value of fire department equipment \$8,000; value of buildings occupied \$10,000; total membership 400, volunteers; bell alarm; 4 fire companies. Chief engineer, John G. Morgan.

WATER SUPPLY—Source, creek; system, pump-

ing to reservoir; reservoir cap 1,500,000 gals; pumping engines, dy cap 1,600,000 gals; 50 hydrants; pipe 104 miles, 3 to 12 in dia; 108 valves; 800 taps; pressure, domestic 40, fire 40 to 43 pounds; waterworks owned by company; expenses of construction to date \$85,000; ann expenses \$3,500. Supt, Henry C. Rlason.

Newark, Essex Co., population 200,000; fire area 19 sq miles; mercantile buildings, brick, stone and wood, 2 to 11 stories; private, brick and wood, 2 to 5 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—13 steam fire engines, 2 chemical engines on wheels, 55 chemical extinguishers, 4 hook and ladder trucks, 1 aerial truck, 11 hose wagons, 11 supply wagons, 2 steamers, 1 chemical, 2 hose carriages in reserve; hose, cotton good 30,000 ft; 54 horses, value \$16,000; value of buildings occupied \$250,000; total ann expenses \$178,000; total membership 140, paid full time; Gamewell alarm; 175 street boxes. Chief engineer, Wm. C. Astley. (Additional hook and ladder, chemical combined engine and steamer are contemplated.)

WATER SUPPLY.—Source, river; system, gravity; reservoir cap 39,000,000 gals; 1,716 hydrants; 206 miles pipe, 48 to 4 in dia; 1,500 meters; pressure 25 to 80 pounds; waterworks owned by city; cost to construct \$6,000,000. Supt, Chas. Marsh.

New Brunswick, Middlesex Co., population 20,000; fire area 2,880 acres; mercantile buildings, brick and wood, 3 stories; private, brick and wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 1 hook and ladder truck, 8 hose carriages, all kinds, 1 hose wagon, 12 chemical extinguishers, 1 hose, cotton good 1,600 ft, rubber good 4,000 ft, poor 500 ft; 3 horses, value \$650; value of fire department equipment \$30,000; value of buildings occupied \$10,000; total ann expenses of department \$3,000; total membership 493, volunteers; bell alarm. Chief engineer, Patrick Murry.

WATER SUPPLY.—Source, Lawrence brook; system, pumping to reservoir, cap 15,000,000 gals; pumping engines, dy cap 6,000,000 gals; 205 hydrants; 52 miles pipe, 4 to 12 in dia; 342 valves; 2,519 taps; pressure 15 to 55 pounds; works owned by city; cost to construct to date \$518,970; ann expenses \$13,050. Supt, T. A. Hoffman.

New Durham, Hudson Co., population 800; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 2 chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages; hose, cotton good 4,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 100, volunteers, paid part time; 5 fire companies; bell alarm. Foreman, George Bruce, Jr.*

WATER SUPPLY.—Source, wells; supply is also furnished by Hackensack Water Co. Supt, Chas. B. Brush; town clerk, Hy. Collins.*

New Egypt, Ocean Co., population estimated 850; fire area 25 acres; mercantile buildings, wood, 2½ and 3 stories; private, wood, 2½ and 3 stories; shingle and tin roofs; no fireworks ordinance; causes of fire investigated. No fire department; ladders and buckets.

WATER SUPPLY.—Source, wells and creek.

Newton, Sussex Co., population 3,003; fire area 2 sq miles; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 3 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 3 hose carriages; hose, cotton good 400 ft, rubber good 1,000 ft, inferior 800 ft; value of fire department equipment \$5,900; value of buildings occupied \$8,500; total ann expenses of department \$800; total membership 125, volunteers, 3 paid part time; bell alarm; 4 fire companies. Chief engineer, Fred. Loges.*

WATER SUPPLY.—Source, water sheds; 4 cisterns, 90,000 gals cap; 1 reservoir, cap 42,000 gals; 700 ft pipe. Town clerk, John S. Kintner.*

Ocean City, Cape May Co., population estimated 800; fire area 2,800 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, combined with aerial truck, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$500; expenses last year \$350; total membership 46, volunteers; steam

whistle alarm; 1 hook and ladder company. Chief engineer, Wm. Lake.

WATER SUPPLY.—Source, artesian wells; system, pump to tank and direct, cap 30,000 gals; pumping engines, dy cap 1,500,000 gals; 30 hydrants; pipe 5 miles, 4 to 8 in; 24 valves; pressure, domestic 34 to 40, fire 100 to 150 pounds; works owned by company; cost \$30,000. Supt, H. M. Kaibach.

Ocean Grove, Monmouth Co., population 3,500; fire area 1,000 acres; buildings, wood, stone and brick, 2 to 5 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 3 chemical engines, 3 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft, rubber good 500 ft; 1 horse, value \$300; value of fire department equipment \$12,275; value of fire department buildings \$3,150; total ann expenses of department about \$903; total membership 150, paid full time 1, part time 2, volunteers; bell, whistle and telephone alarm. Chief engineer, Aaron Reed.

WATER SUPPLY.—Source, 23 artesian wells; system, pumping to tank, cap 329,000 gals; pumping engines, dy cap 2,000,000 gals; 41 hydrants; pipe 13 miles, 4 to 8 in dia; 15 valves; 53 meters; pressure 21 pounds; cost \$60,074.55; ann expenses \$3,018.83. Pres, E. H. Stokes; supt, John J. Smith. Lakes surround city from which water for fire purposes is also obtained.

Orange, Essex Co., population 18,844; fire area 100 acres; mercantile buildings, brick, 3 stories; private, wood, 2 and 3 stories; causes of fire investigated. Fire department—1 combination chemical engine and hose wagon, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 2 hose wagons; hose, cotton good 4,500 ft, inferior 1,000 ft, rubber good 600 ft; 7 horses, value \$3,000; value of fire department equipment \$9,800; value of buildings occupied \$25,000; total ann expenses of department \$13,000; total membership 38, paid full time 9, paid part time 29; Gamewell alarm; street boxes 20, private 3. Chief engineer, J. W. Hodgkinson.

WATER SUPPLY.—Source, Rahway river; system, gravity to reservoir; reservoir cap 375,000,000 gals; 110 hydrants; pipe 28 miles; 308 meters; pressure 70 pounds; cost to construct \$400,000; works owned by city. Supt, Thomas Dowd.*

Palmyra, Burlington Co., population 2,500; fire area 2 sq miles; buildings, wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber 1,600 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; expenses of department \$300; total membership 78, volunteers; electric and bell alarm; 9 street boxes. Chief engineer, Robert M. Garrell.

WATER SUPPLY.—Source, spring and wells; system, pump to tank, cap 75,000 gals; pumping engines, dy cap 2,000,000 gals; pipe 10 miles, 4, 6 and 8 in; hydrants 78; 51 valves; 430 taps; pressure 50 pounds. Supt, Howard Parry.

Passaic, Passaic Co., population 20,000; buildings, brick, stone and wood, 2½ and 4 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 steam fire engines, 1 chemical engine, 2 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, all kinds, 1 hose wagon; hose, rubber good 3,000 ft, inferior 200 ft; 6 horses; value of fire department equipment \$20,000; value of buildings occupied \$15,000; expenses of department \$4,000; total membership 240, volunteers; Gamewell telegraph alarm; 37 street boxes. Chief engineer, Henry R. Speer.

WATER SUPPLY.—Source, Passaic river; system, gravity and pumping to reservoir; reservoir cap 25,000,000 gals; pumping engines, dy cap 2,000,000 gals; 219 hydrants; pipe 34 miles, 4 to 20 in; pressure 50 pounds; Edison pressure recording gauge; cost to construct \$150,000; ann expenses \$5,600. Supt, W. Paulson.

Paterson, Passaic Co., population 90,000; fire area 5,357 acres; mercantile buildings, brick, 3 to 5 stories; private, wood and brick, 2 to 4 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—10 steam fire engines, 1 chemical engine on wheels, 24 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 1 hose carriage, 9 hose wagons, 1 supply wagon; hose,

cotton good 14,350 ft, inferior 2,250 ft; 42 horses, value \$10,500; value of fire department equipment \$63,000; value of buildings occupied \$82,000; total ann expenses of department \$90,000; total membership 148, paid full time time 68, paid part time 83; Gamewell alarm; 107 street boxes; 9 engine companies, 3 hook and ladder companies, 1 chemical company. Chief engineer, John Stagg.

WATER SUPPLY—Source, Passaic river; system, pumping to reservoir; reservoir cap 50,000,000 gals; pumping engines, dy cap 24,000,000 gals; 914 hydrants; pipe 84 miles, 4 to 36 in dia; 961 valves; 8,052 taps; pressure, domestic 35 pounds, fire same; works owned by company. Pres, Garrett A. Hobart; supt, William Byle (6,000,000 gals Worthington engine ordered).

Pennington, Mercer Co., population 800; fire area 1 mile diameter; buildings, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; 300 ft of good cotton hose; value of equipment \$1,000; membership 60, volunteers; bell alarm. Chief, Frank A. Blacknell.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 600,000 gals; pipe 4 miles; 1 meter; pressure 20 to 30 pounds. Pres, D. A. Clarkson; supt, J. S. Burd.*

Perth Amboy, Middlesex Co., population 12,000; mercantile buildings, brick, 3 stories; private, wood, 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 jumper; hose, cotton good 2,500 ft, linen good 100 ft; value of fire department equipment \$6,000; value of buildings occupied \$8,000; expenses for past year \$1,000; total membership 200, volunteers; bell alarm; 5 fire companies. Chief engineer, William F. Hartmann, Jr.

WATER SUPPLY—Source, springs and pond; system, pumping to standpipe from impounding reservoir; reservoir cap 300,000,000 gals; standpipe cap 200,000 gals; pumping engines, dy cap 6,000,000 gals; 141 hydrants; pipe 26 miles, 16 to 4 in dia; 135 valves; 514 taps; pressure 65 pounds; waterworks owned by city; cost \$280,000. Pres, J. M. Chapman; supt, Adam Eckert.

Phillipsburg, Warren Co., population about 9,000; fire area ¼ mile by 1 mile; mercantile buildings, brick and wood, 3 stories; private, wood, 2½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 2,950 ft, fair 450 ft, rubber good 350 ft; value of fire department equipment \$4,000; value of buildings occupied \$18,000; total ann expenses of department \$1,500; total membership 120, volunteers; Gamewell alarm; 12 street boxes. Chief engineer, Charles McCorkell.

WATER SUPPLY—Source, Delaware river; system, pumping to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 2,000,000 gals; 68 hydrants; pipe 12 miles, 4 to 14 in dia; 86 valves; 10 meters; quality of water soft; pressure 105 pounds; waterworks owned by company. Pres, S. Thomas; supt, G. S. Stryker.

Plainfield, Union Co., population 12,500; fire area 3,837; buildings, brick and wood, 2 to 5 stories; wooden roofs permitted. Fire department—2 steam fire engines, 8 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 3 hose wagons; hose, cotton good 5,000 ft, inferior 1,350 ft; 9 horses, value \$2,250; value of fire department equipment \$18,100; total ann expenses of department \$15,000; total membership 145, volunteers, paid full time 5, paid part time 5; bell alarm, Gamewell fire alarm and chime whistle; 20 street boxes. Chief engineer, T. O. Doane.

WATER SUPPLY—Source, 20 driven wells; system, pumping to standpipe; standpipe cap 510,000 gals each; pumping engines, dy cap 5,000,000 gals; 215 hydrants; pipe 37 miles, 8 to 16 in dia; 835 taps; pressure 74 pounds; waterworks owned by company. Supt, Amos Andrews.

Pleasantville, Atlantic Co., population 2,000; fire area 4 sq miles; buildings, wood and brick, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck; bell alarm.

WATER SUPPLY—Source, wells. Town clerk, J. Price.

Point Pleasant, Ocean Co., population 1,500; fire area 2,000 acres; mercantile buildings, wood, 2½ stories; private, wood, 2½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; value of fire department equipment \$1,200; total ann expenses of department \$75; total membership 45, volunteers. Chief engineer, C. W. Clayton.

WATER SUPPLY—Source, driven wells; system, pumping into reservoir; reservoir cap 21,000 gals; pumping engines, 400 gals per min; pipe 7 miles, 3 and 4 in dia; 13 valves; pressure 15 pounds; waterworks owned by company; cost to construct \$11,000; ann expenses \$250. Supt, Joseph Backes.

Princeton, Mercer Co., population 3,422; mercantile buildings, brick, 4 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 750 ft, inferior 200 ft, leather good 1,950 ft; value of buildings occupied \$7,500; total ann expenses of department \$2,000; total membership 130; bell alarm. Chief engineer, E. H. Bergen.*

WATER SUPPLY—Source, well, sunk through gravel bed; system, pumping to standpipe, standpipe cap 142,000 gals; pumping engines, dy cap 1,900,000 gals; 50 hydrants; pipe 7 miles, 4 to 10 in dia; 22 valves; 345 taps; pressure 45 to 80 pounds; waterworks owned by company; cost to construct \$71,000; ann expenses \$3,400. Supt, James E. Burke.

Rahway, Union Co., population 8,000; fire area 1,920 acres; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2½ stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 2 hook and ladder trucks, 3 hose carriages, 3 jumpers; hose, linen good 5,000 ft; total ann expenses of department \$500; total membership 208, volunteers; Gamewell alarm. Chief engineer, Henry Bierwirth.

WATER SUPPLY—Source, Rahway river; system, direct; pumping engines, dy cap 3,000,000 gals; 133 hydrants; pipe 14 miles, 4 to 12 in dia; 100 valves; 1 meter; pressure, domestic 55, fire 70 to 75 pounds; Edson pressure recording gauge; waterworks owned by city; cost to construct \$185,000; ann expenses \$7,500. Supt, Daniel G. Urmston.

Raritan, Somerset Co., population 2,556; fire area ¼ sq mile; mercantile buildings, brick and wood, 2 and 3 stories; private, wood and brick, 2 stories; slate and tin roofs; fireworks ordinance. Fire department—1 hose carriage, 1 hose coupling; hose, cotton good 2,000 ft, leather inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total ann expenses of department \$100; total membership 60, volunteers; Gamewell alarm; 1 box. Chief engineer, Daniel Smith.

WATER SUPPLY—Source, Raritan river; system, direct and pumping to standpipe; 18 hydrants; pipe 2½ miles, 9 to 12 in dia; pressure 60 pounds; ann expenses \$500.*

Red Bank, Monmouth Co., population 5,000; mercantile buildings, brick and stone, 2 and 3 stories; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, 4,500 ft; value of equipment \$6,000; value of buildings occupied \$7,000; ann expenses \$600; total membership 160, volunteers, paid part time; 1 fire alarm. Chief engineer, C. W. Thompson.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; cap 800,000 gals; pumping engines, dy cap 1,200,000 gals; 98 hydrants; pipe 10 miles, 4 to 10 in dia; 44 valves; 369 taps; quality of water good; pressure 45 pounds; works owned by city; cost to construct \$85,000; ann expenses \$2,500. Supt, W. J. Bentley.

Riverside, Burlington Co., population 3,000; fire area 4 miles; mercantile buildings, brick, stone and wood, 1 to 3 stories; private, stone and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, rubber good 250 ft; value of fire department equipment \$800; value of buildings occupied \$400; total ann expenses of department \$1,200; total membership 50, volunteers. Foreman, Lewis Schraid.*

WATER SUPPLY—Source, wells.*

Rutherford, Bergen Co., population about 4,000; mercantile buildings, brick and wood, 2½ stories; private, wood, brick and stone, 2½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 700 ft, fair 300 ft; value of fire department equipment \$1,500; value of buildings occupied \$7,000; total membership 117, volunteers; Gamewell alarm. Chief engineer, C. R. Soley.

No water supply.

Salem, Salem Co., population 5,516; fire area 300 acres; mercantile buildings, wood and brick, 3 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 2 hose carriages, 2 hose couplings; hose, rubber good 1,500 ft, leather good 500 ft, linen good 200 ft; value of fire department equipment \$1,000; value of buildings occupied \$12,000; total ann expenses \$1,000; total membership 300, volunteers; bell alarm. Chief engineer, R. T. Starr.

WATER SUPPLY—Source, well and surface water; system, direct pumping from impounding reservoir; pumping engines, dy cap 1,000,000 gals; 70 hydrants; pipe 10 miles, 12 to 4 in dia; 45 valves; pressure, domestic 45, fire 85 to 125 pounds; cost to construct \$69,500; ann expenses \$6,740. Supt, Chas. W. Casper.

Scotts Plains, Union Co., population 500; buildings, brick and wood, 2½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; value of fire department equipment \$7,000; total membership 90, volunteers; bell alarm. Chief engineer, F. W. Wistcalf.*

WATER SUPPLY—Source, wells, brook and cisterns. Town clerk, Ed. L. Hand.*

Seabright, Monmouth Co., population 1,000; buildings, wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance.*

WATER SUPPLY—Source, artesian wells; system, pump to standpipe; cap 67,000, dy cap 1,000,000 gals; pipe 2 miles; quality of water good; works owned by company; cost to construct \$18,500. Supt, Mifflin Paul.*

Short Hills, Essex Co., population 500; buildings, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance.*

WATER SUPPLY—Source, springs; system, pump to reservoir; reservoir cap 4,000,000 gals, dy cap 50,000 gals; pipe 5 miles; 2 hydrants; 10 meters; cost \$70,000. Owner, Stewart Hartshorn.*

Somerville, Somerset Co., population 4,000; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder trucks, 5 hose carriages, all kinds; hose, cotton good 2,500 ft, rubber good 900 ft, leather inferior 400 ft; value of fire department equipment \$9,500; value of buildings occupied \$7,000; total ann expenses of department \$1,750; total membership 180, volunteer members 160; Gamewell alarm; 10 street boxes. Chief engineer, Joshua Doughty, Jr.

WATER SUPPLY—Source, Raritan river; system, pumping to standpipe; standpipe cap 82,000 gals; pumping engines, dy cap 2,000,000 gals; 50 hydrants; pipe 10 miles, 3 to 18 in dia; 450 taps; pressure, domestic 45, fire 100 pounds; waterworks owned by company; cost to construct \$50,000, to date \$92,000; ann expenses \$4,784. Supt, J. Harper Smith.

South Amboy, Middlesex Co., population 4,330; fire area 1½ sq miles; mercantile buildings, brick and wood, 3 stories; private, brick and wood, 3 stories; shingle, slate and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft, rubber good 250 ft; value of fire department equipment \$6,125; value of buildings occupied \$3,000; total ann expenses of department \$7,500; total membership 180, volunteers. Chief engineer, Cornelius McGonigle.*

WATER SUPPLY—Source, Perth Amboy main; system, pumping to standpipe; standpipe cap 250,000 gals; pumping engines, dy cap 3,000,000

gals; 72 hydrants; pipe 7 1-3 miles, 4 to 12 in dia; 64 valves; 10 taps; pressure, domestic 70, fire 75; pounds; waterworks owned by city; cost to construct \$24,500. Supt, Alfred Clark.

South Orange, Essex Co., population 3,000; fire area 1,800 acres; mercantile buildings, wood, 2½ stories; private, wood, 2½ stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,300 ft, inferior 200 ft; value of fire department equipment \$3,000; total ann expenses of department \$200; total membership 42, volunteers. Chief engineer, John Barrett.

WATER SUPPLY—Source, wells, located at Summit, N. J.; system, pumping to standpipe, then gravity; standpipe cap 180,000 gals; pumping engines, dy cap 1,000,000 gals; 81 hydrants; pipe 12 miles, 10 to 4 in dia; 107 valves; 320 taps; pressure 50 to 110 pounds; waterworks owned by village; original cost to construct \$25,000; expenses of construction to date \$40,000; ann expenses \$8,000. Supt, Charles J. Barrett.

South River, Middlesex Co., population not given; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 2 stories; tin and shingle roofs; fireworks ordinance. Fire department—1 hook and ladder truck; 41 volunteers. Fire com, Geo. E. Brown; foreman, Chas. Fresham.*

WATER SUPPLY—Source, wells, cisterns and river. Village clerk, Benj. Peterson.*

Summit, Union Co., population 3,750; fire area 4 miles; mercantile buildings, brick and frame, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 4,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$12,000; total ann expenses of department \$300; total membership 60, volunteers; steam whistle and electric bell alarm; 12 street boxes. Chief engineer, J. H. Pheasant.

WATER SUPPLY—Source, see South Orange; system, pumping to standpipe, cap 180,000 gals; pumping engines, dy cap 2,000,000 gals; 71 hydrants; pipe 22 miles, 10 to 4 in dia; 80 valves; pressure 60 to 80 pounds; works owned by company; cost to construct \$150,000, to date \$200,000. Supt, Frederik Green.

Swedesboro, Gloucester Co., population 2,055; mercantile buildings, wood, 2½ stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers.*

WATER SUPPLY—Source, wells and cisterns.*

Tenafly, Bergen Co., population 1,800; fire area 2,000 acres; mercantile buildings, wood, 2 stories; private, wood, 2½ ft; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, linen good 500 ft; value of fire department equipment \$1,400; value of buildings occupied \$1,200; total membership 48, volunteers; steel ring alarm. Chief engineer, Jas. H. Buckley.

WATER SUPPLY—Source, Hackensack Water Co., system, pumping direct; pressure, 75 to 20 pounds.

Trenton, Mercer Co., population 60,000; fire area 2,400 acres; mercantile buildings, brick, 2 to 6 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines (3 reserve), 12 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 8 hose carriages, 3 reserve, 1 supply wagon; hose, rubber good 24,000 ft, cotton good 1,000 ft, 25 hoses, value \$5,000; value of fire department equipment \$30,000; value of buildings occupied \$72,000; total ann expenses of department \$80,000; total membership 98, paid full time; Gamewell alarm; 42 street boxes and 13 transmitter boxes; 8 fire companies, 6 engine companies, 2 hook and ladder companies. Chief engineer, Wm. McGill.

WATER SUPPLY—Source, Delaware river; system, pumping to reservoir and tank; reservoir cap 20,000,000 gals; standpipe cap 1,500,000 gals; pumping engines, dy cap 8,000,000 gals; 500 hydrants; pipe 80 miles, 4 to 36 in; 1,000 valves; 9,000 taps; pressure, domestic 24, fire 24 pounds; waterworks owned by city; expenses of construc-

tion to date \$740,000; ann expenses \$32,000. Supt. David Lenox. (Are erecting a 10,000,000 gals pump also storage reservoir).

Union, Hudson Co., population 10,643; fire area 3-4 sq miles; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, 3,500 ft, good cotton rubber lined; value of fire department equipment \$15,000; value of buildings occupied \$40,000; total ann expenses of department \$1,000; total membership 150, volunteers; Gamewell alarm. Chief engineer, Fredk Lange, Jr.

WATER SUPPLY—From Hackensack Water Co.

Vineland, Cumberland Co., population 4,500; fire area 980 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 3,100 ft; value of fire department equipment \$2,200; value of buildings occupied \$2,000; total ann expenses of department \$1,000; total membership 35, paid part time 40, Curtis & Parker electric alarm; 18 street boxes. Chief engineer, E. Morley.

WATER SUPPLY—Source, driven wells; system, pumping to reservoir, cap 100,000 gals; pumping engines, dy cap 700,000 gals; 65 hydrants; pipe 18 miles, 12 to 2 in dia; pressure, domestic 35, fire 100 pounds; works owned by company; cost to construct \$75,000; to date \$85,000. Pres. Chas. Keigley.

Washington, Warren Co., population 3,000; buildings, brick and wood, 2 and 3 stories. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton 3,000 ft; value of equipment \$8,000; value of buildings occupied \$7,000; ann expenses \$300; total membership 40, volunteers. Chief engineer, W. J. Byrne.*

WATER SUPPLY—Source, stream; system, gravity; 30 hydrants; 6 miles pipe, 10 to 4 in dia; 35 valves; 1 meter; pressure 80 pounds; works owned by company; cost to construct \$35,000. Pres. J. W. Fitts; supt. J. F. Fulper.

Westfield, Union Co., population 3,500; fire area 4 sq miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 800 ft, rubber good 750 ft; value of fire department \$3,300; value of buildings occupied \$1,500; total ann expenses of department \$500; total membership 104; volunteer members 104; electric bell alarm; street boxes 1. Chief engineer, Isaac Sulley.

WATER SUPPLY—Source, wells and cisterns and

water supplied by Union Water Co. Plainfield; 12 hydrants.

West Hoboken, Hudson Co., population 12,000; fire area 3 sq miles; mercantile buildings, brick, 3 to 5 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted. Fire department—8 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 8 hose carriages, all kinds; hose, linen 6,000 ft, inferior 300 ft; value of fire department equipment \$12,000; value of buildings occupied \$16,000; total ann expenses of department \$1,500; total membership 325, volunteers; bell alarm; 6 fire companies. Chief engineer, George D. Ennes.*

WATER SUPPLY—Supplied by Hackensack Water Co. (see Hoboken).*

Woodbury, Gloucester Co., population 4,000; fire area 12,000 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 10 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,500 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,000; ann expenses \$900; total membership 60, volunteers; Gamewell alarm; 17 street boxes. Chief engineer, C. W. Starr.

WATER SUPPLY—Source, head of Mantua creek; system, pumping to reservoir; reservoir cap 1,250,000 gals; pumping engines, dy cap 250,000 gals; 77 hydrants; pipe 30 miles, 4 to 12 in dia; 87 valves; 570 taps; pressure 40 to 50 pounds; waterworks owned by city; cost to construct \$72,000 to date \$79,000; ann expenses \$2,251.99. Supt. C. B. Brown.

Woodstown, Salem Co., population 1,550; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton new 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total membership 34; volunteer members 34. Chief engineer, C. C. Turner.

WATER SUPPLY—Source, 6 artesian wells; system, gravity and pumping to standpipe; standpipe, cap 87,000 gals; pumping engines, dy cap 500,000 gals; hydrants 64; pipe 6 miles, 2 to 4 in dia; 33 valves; 103 taps; pressure, domestic 50, fire 100 pounds; waterworks owned by city; cost to construct \$30,000; ann expenses \$800. Supt. Benjamin Stevenson.

Places having a population of 1,000 and upward that have no fire protection: Dunellen, Middlesex Co., population 1,080; Garfield, Bergen Co., population 1,028; Oxford, Warren Co., population 2,383; Paulsborough, Gloucester Co., population 1,131; Ridge-wood, Bergen Co., population 1,047; Riverton, Burlington Co., population 1,075; Tom's River, Ocean Co., population 1,147.

NEW MEXICO.

Albuquerque, Bernalillo Co., population 5,000; fire area 1½ square miles; mercantile buildings, brick and stone, 2 to 3 stories; private, brick and stone, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck with Babcock extinguishers, 3 hose carriages, 1 hose wagon; hose, linen good 1,800 ft; value of equipment \$5,000; value of buildings occupied \$15,000; expenses for past year \$1,000; total membership 75, volunteers; bell alarm; 4 fire companies. Chief engineer, W. T. McCreight.

WATER SUPPLY—Source, wells; system, pumping to reservoir; cap 3,500,000 gals; pumping engines, dy cap 3,000,000 gals; 87 hydrants; pipe 10½ miles, 5 to 14 in dia; 26 valves; 62 meters; pressure 90 pounds; waterworks owned by company; cost to construct to date \$151,000; ann expenses \$7,850. Supt. B. F. Davis.

Clayton, Colfax Co., population 400; buildings, stone and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. No organized fire department.

WATER SUPPLY—Source, springs; system, pump to tank; cap 28,000 gals; pumping engines, dy cap 84,000 gals; pipe 2¼ miles, 3 in dia; works owned by company. Supt. W. A. Deuel, of Denver.

Deming, Grant Co., population 1,136; mercantile buildings, brick, 2 stories; private, brick and

wood, 1 and 2 stories; wooden roofs not permitted in business part of town; no fireworks ordinance. Fire department—1 hook and ladder truck; value of fire department equipment \$700; value of buildings occupied \$250; total membership 25, volunteers. Chief engineer, W. P. Wilkinson.*

WATER SUPPLY—Source, underground river; system, direct into mains, overflow to reservoir; reservoir 40,000,000 gals; pumping engines, dy cap 7,000,000 gals; hydrants 100; pipe 1-2 miles, 30 to 11 in dia; taps 100; valves 100; pressure, domestic from 30 ft head, fire 100 pounds; waterworks owned by company; original cost to construct \$84,000; ann expenses \$8,000. Pres. P. R. Smith; supt. H. P. Olcott.

East Las Vegas, San Miguel Co., population 5,000; fire area 20 acres; mercantile buildings, wood and brick, 1 to 1-2 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500 ft, inferior 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$700; total membership 50, volunteers; bell alarm. Chief engineer, Marion J. Crowley.

WATER SUPPLY—Source, mountain stream, 1 miles from city; system, gravity; hydrants 10

pipe 11 miles, 10 in dia; pressure, domestic 60 to 80 lbs, fire 60 to 120 pounds; waterworks owned by company. Supt, T. H. Pierce.

Gallup, Bernalillo Co., population 1,208; fire area 30 acres; buildings, adobe and wood, 1 story. Fire department—4 hose carriages; hose, cotton good 1,000 ft, rubber good 2,000 ft (all private); value of fire department equipment \$500; total membership 35, paid full time 1, paid part time 6; steam whistle alarm.*

WATER SUPPLY—Source not given; system, pumping to large tank; pressure 120 pounds. Town clerk, E. Hart.*

Kingston, Sierra Co., population 633; fire area 40 acres; mercantile buildings, brick, stone and wood, 1 to 3 stories; private, wood and brick, 1 story; wooden roofs permitted. Fire department—1 hook and ladder truck; value of fire department equipment \$250; total ann expenses of department \$500; total membership 40, volunteers; bell alarm. Chief engineer, Col. John S. Crawford.

WATER SUPPLY—Source, creek and springs; system, gravity; cap of reservoir 200,000 gals; pipe 1-½ miles.

Las Vegas, San Miguel Co., population 7,000; fire area 640 acres; mercantile buildings, wood, brick and stone, 1 to 3 stories; private, wood, 1 story; wooden roofs permitted. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, good 1,600 ft, inferior 400 ft; value of fire department equipment \$5,000; value of buildings occupied \$5,000; ann expenses \$500; total membership 75, volunteers; bell alarm. Foreman, C. W. Allen.

WATER SUPPLY—Source, Gallinas river; system, gravity; reservoir cap 2,000,000 gals; 32 hydrants; pipe 15 miles, 12 to 8 in dia; 44 valves; pressure 60 to 130 pounds; works owned by company; cost to construct \$110,000; to date \$150,000. Supt, F. H. Pierce.

Magdalena, Socorro Co., population 273; mercantile buildings, brick, adobe and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, railroad tank; cap 75,000 gals; 6 hydrants, pipe 3-4 miles, 3 and 2 in dia.

Maxwell, Colfax Co., population 200; mercantile buildings, wood, 1 and 1½ stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department not reported.

WATER SUPPLY—Source, springs; system, gravity; storage reservoir cap 50,000 gals; 1 hydrant; pipe 3 miles; quality of water good; pressure 70 pounds; works owned by company; cost to construct \$8,000. Supt, E. S. Warren.

Haton, Colfax Co., population 1,255; fire area 1½ mile; mercantile buildings, brick and stone, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages; hose, cotton good 2,000 ft, rubber good 900 ft; value of fire department equipment \$4,000; value of buildings occupied \$250; total membership 40,

volunteers; bell alarm; 2 hose companies. Chief engineer, Charles A. Fox.*

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 35,000,000 gals; 44 hydrants; pipe 15 miles, 10, 8, 6 in dia; 25 valves; pressure, 120 pounds; works owned by company; cost to construct \$115,000; ann expenses \$5,000. Supt, O. L. Hobbs.

Santa Fe, Santa Fe Co., population 6,185; fire area 10 acres; mercantile buildings, adobe and brick, 1 and 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 700 ft, rubber good 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$700; total membership 65, volunteers; bell alarm. Chief engineer, W. G. Ashdown.

WATER SUPPLY—Source, mountain streams and Santa Fe river; system, gravity; reservoir cap 30,000,000 gals; 25 hydrants; pipe 10 miles; pressure 175 pounds; cost to construct about \$175,000; ann expenses \$6,000. Supt, E. B. Seward.*

Silver City, Grant Co., population 2,200; fire area 640 acres; buildings, brick and stone, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, inferior 300 ft, rubber good 500 ft; value of equipment \$2,500; value of buildings occupied \$800; ann expenses \$300; membership 42, volunteers; bell alarm; 3 fire companies. Chief engineer, L. A. Skelly.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 250,000 gals; pumping engines, dy cap 600,000 gals; 23 hydrants; pipe 7 miles; pressure 100 pounds; cost to construct \$50,000; ann expenses \$4,000. Supt, Frank G. Cline.

Socorro, Socorro Co., population 3,500; fire area ¼ sq mile; mercantile buildings, brick and adobe, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 600 ft, poor 400 ft; value of fire department equipment \$1,500; total membership 25, volunteer; bell alarm. Chief, Catarino Cortanes.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 503,000 gals; 28 hydrants; pipe 10 miles, 2 to 10 in dia; 17 valves; pressure 70 pounds; works owned by city; cost to construct \$30,000, to date \$38,000; ann expenses \$1,000; int on bonds \$1,800. Supt, R. W. Monroe.

Springer, Colfax Co., population 600; fire area 10 acres; mercantile buildings, brick, stone and wood, 1 and 2 stories; private, adobe, 1 story; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 500 ft, inferior 50 ft; value of fire department equipment \$600; value of buildings occupied \$50; total membership 11, volunteers; hose company; bell alarm. Chief engineer, J. A. Kremis.

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines; pipe 2 miles, 6 and 4 in dia; quality of water good; works owned by company; cost to construct \$13,000. Supt, W. W. Jacobs.

NEW YORK.

Adams, Jefferson Co., population 1,650; fire area 900 acres; mercantile buildings, brick, iron and wood, 2 and 3 stories; private, brick and wood, 2 and 2½ stories; shingle and tin roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, poor 400 ft, linen good 700 ft, leather good 50 ft; total membership 7, volunteers; bell alarm. Chief engineer, L. G. Fish.

WATER SUPPLY—Source, springs; system, pumping to standpipe and direct; standpipe cap 55,000 gals; pumping engines, dy cap 1,000,000 gals; 27 hydrants; pipe 4 miles, 4 to 8 in; 111 taps; pressure, domestic 44, fire 120 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$1,000. Supt, I. W. Payne.

Addison, Steuben Co., population 2,800; mercantile buildings, iron, brick and stone, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance

Fire department—4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 900 ft, inferior 150 ft, rubber good 500 ft, inferior 200 ft, linen good 300 ft; value of fire department equipment \$200; value of buildings occupied \$1,000; total ann expenses of department \$200; total membership 100, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. J. Ameigh.

WATER SUPPLY—Source, springs and Canisteo river; system, gravity and pumping to reservoir, cap 2,000,000 gals; pumping engines, dy cap 750,000 gals; 61 hydrants; pipe 5 miles, 4 to 16 in dia; 35 valves; 106 taps; pressure 86 pounds; waterworks owned by company; cost to construct \$50,000. Supt, S. F. Potter; secy and treas, Chas. C. Hopkins.

Akron, Erie Co., population 1,800; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire

department—2 hand engines, 1 hook and ladder truck, 3 hose carts; value of fire department equipment \$1,500; value of 2 buildings occupied \$1,000; total ann expenses of department \$200; total membership 100, volunteers; bell alarm. Chief engineer, G. Wells.

WATER SUPPLY—Source, cisterns, wells and Murder creek. (A waterworks system contemplated.)

Albany, Albany Co., population 100,000; fire area 15 1/2 miles; mercantile buildings, brick and stone, 3 to 6 stories; private, brick and stone, 2 1/2 to 4 1/2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—10 steam fire engines (2 in reserve), 35 chemical extinguishers, 2 hook and ladder trucks (1 in reserve), 1 aerial truck, 10 hose carriages, all kinds (1 in reserve), 12 supply carriages, 1 in lumber district, others in penitentiary; hose, cotton good 16,850 ft, inferior 4,000 ft; 44 horses, value \$13,200; value of fire department equipment \$172,300; value of buildings occupied \$157,200; total ann expenses of department \$100,221; total membership 187, paid full time 54, paid part time 133; insurance patrol, two wagons, 5 men, paid full time; Pearce & Jones alarm; 147 street boxes; 12 fire companies, 10 engine companies, 3 hook and ladder companies. Chief engineer, M. E. Higgins.*

WATER SUPPLY—Source, Hudson river, Patroon's creek; system, gravity and pumping to reservoir; 2 impounding reservoirs, cap 222,000,000 gals; 2 distributing reservoirs; pumping engines, dy cap 16,000,000 gals; 728 hydrants; pipe 115.0% miles, 3 to 30 in dia; 580 valves; 16,097 taps; pressure, domestic 20 to 60 pounds; fire a high head; waterworks owned by city; ann expenses \$130,000. Pres of com, E. Sweet; supt, Geo. I. Bailey.

Albion, Orleans Co., population 4,586; fire area 10 miles; mercantile buildings, stone and brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,500 ft; hired horses; total membership 240, volunteers, paid part time 5; triangle and bell alarm; 1 engine company, 1 hook and ladder company, 4 hose companies. Chief engineer, Frank E. O'Brien.*

WATER SUPPLY—Source, springs and wells; system, pumping to standpipe; standpipe cap 250,000 gals; pumping engines, dy cap 2,000,000 gals; 93 hydrants; pipe 9 1/2 miles, 4 to 8 in dia; 40 valves; 225 meters; pressure, domestic 70, fire 70 pounds; waterworks owned by company; cost to construct \$110,000; ann expenses \$2,000. Supt, O. D. Eddy.

Alexandria Bay, Jefferson Co., population 1,200; fire area 1 mile; mercantile buildings, stone, brick and wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000 total ann expenses of department \$500; total membership 75, volunteers; bell alarm; 3 fire companies. Chief engineer, John I. Cornwall.

WATER SUPPLY—Source, wells.*

Alfred Centre, Allegany Co., population 800; fire area 1/2 mile radius from centre; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 chemical and hand engine combined, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose reel; hose, cotton good 500 ft; value of fire department equipment \$1,000; value of building \$10,000; total membership 40, volunteers. Chief, John F. Langworthy.

WATER SUPPLY—Have voted to put in waterworks.

Amenia, Dutchess Co., population 800. Fire department—2 hose carriages; hose, cotton good 800 ft, linen good 400. Chief engineer, N. Hebard.

WATER SUPPLY—Source, springs; system, gravity and pump in drought; reservoir cap 400,000 gals; standpipe cap 100,000 gals; 9 hydrants; pipe 4 miles, 6 to 2 in dia; pressure, domestic 62, fire 92 pounds; waterworks owned by company; original cost to construct \$11,600. Supt, J. R. Thompson.

Amsterdam, Montgomery Co., population 20,000; fire area 10 miles; mercantile buildings, brick, 3 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 7 hose carts; hose, cotton good 5,500 ft; value of fire department equipment \$12,000; value of buildings occupied \$10,000; total ann expenses of department \$5,000; total membership 480, paid full time 2. Chief engineer, William Stickel.

WATER SUPPLY—Source, spring and brooks; system, gravity; reservoir cap 80,000,000 gals; 250 hydrants; pipe 25 miles, 4 to 14 in dia; 308 valves; pressure, domestic 70, fire 140 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$257,000; ann expenses \$6,500. Pres of com, Jas. R. Snell; supt, Capt. A. H. DeGraff.

Andes, Delaware Co., population 416; fire area 200 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, rubber good 100 ft, leather inferior 300 ft; value of fire department equipment \$1,500; value of buildings \$1,125; total ann expenses of department \$50; total membership 48, volunteers; bell alarm. Chief engineer, Walter J. Armstrong.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 120,000 gals; 26 hydrants; pipe 1 1/2 miles, 4 to 16 in dia; pressure 81 pounds; waterworks owned by company; cost to construct \$7,000; ann expenses \$175. Supt, D. Ballantius.

Arcade, Wyoming Co., population 1,840; fire area 320 acres; mercantile buildings, wood, 4 brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 400 ft, inferior 100 ft; value of fire department equipment estimated \$1,500; value of building occupied \$1,100; total ann expenses of department \$150; total membership 52, volunteers; bell alarm; 1 engine company, 1 hook and ladder company. Chief, E. D. Keeney.

WATER SUPPLY—Source, creeks and wells. (Regular system contemplated.)

Athens, Greene Co., population 2,122; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, 2 hose couplings used; hose, rubber good 1,700 ft; value of 2 buildings occupied \$4,500; total membership 130, volunteers; bell alarm. Chief engineer, G. W. Brooks.

WATER SUPPLY—Source, river, wells and springs; 8 cisterns, cap 130,000 gals.

Attica, Wyoming Co., population 2,000; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted, mostly tin. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,500 ft, rubber good 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$6,000; total membership 100, volunteers; bell and whistle alarm; 1 engine company, 3 hose companies, 1 hook and ladder company. Chief engineer, E. A. Holcomb.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 12,000,000 gals; 32 hydrants; pipe 6 miles; 18 valves; 1 meter; pressure 65 pounds; waterworks owned by company; cost to construct \$88,000; ann expenses \$500. Sec and supt, G. T. Loomis.

Auburn, Cayuga Co., population 25,858; mercantile buildings, brick and stone, 4 stories; private, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck (1 in reserve), 1 aerial truck, 4 3 hand hose carriages, 22-horse hose wagons, 4 2-wheel carts in reserve, 2 horse hose sleighs, 3 hand hose sleighs; hose, cotton good 5,500 ft, inferior 2,500 ft; 10 horses, value \$2,000; value of fire department equipment \$30,000; value of buildings occupied \$33,000; total ann expenses of department \$16,000; total membership 92, paid full time 19, paid part time 13, volunteer members 60; Gamewell alarm; 31 street boxes; 7 fire companies, 1 en-

gine company, 1 hook and ladder company, 5 hose companies. Chief engineer, E. J. Jewhurst.

WATER SUPPLY—Source, Oswego lake; system, pumping direct; pumping engines, dy cap 15,000, 000 gals; 303 hydrants; pipe 33 miles, 4 to 24 in dia; 200 valves; pressure, domestic 45, fire 75 to 125 pounds; works owned by city; cost to construct to date \$500,000. Supt, secy and treas, N. B. Eldred.

Avoca, Steuben Co., population 1,000; fire area 15 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$700; total membership 25, volunteers. Chief engineer, Walter H. Wood.

WATER SUPPLY—Source, springs and streams; system, gravity; reservoir cap 1,000,000 gals; 33 hydrants; pipe 5 to 19 miles, 4 to 10 in dia; 8 valves; pressure 80 pounds; waterworks owned by village; cost to construct \$19,954.52; ann expenses \$44.75. Supt, W. H. Wood.

Avon, Livingston Co., population 1,800; fire area 2,500 acres; mercantile buildings, brick, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; 2 hoses, value \$300; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of department \$550; total membership 102, volunteers; bell alarm, 4 fire companies. Chief engineer, Orange Sackett.

WATER SUPPLY—Source, Conesus lake; system, gravity; reservoir cap 500,000 gals; 38 hydrants; pipe 13 miles, 12 to 4 in; 21 valves; pressure, domestic 65, fire 110 pounds; waterworks owned by city; cost to construct \$65,000, to date \$68,000; ann expenses \$400. Supt, Homer Sackett.

Babylon, Suffolk Co., population estimated 3,000; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose cart; hose, good 1,000 ft, inferior 50 ft; total membership 150, volunteers. Chief engineer, A. J. Weeks.

WATER SUPPLY—Source, 20 large wells and 2 ponds.*

Bainbridge, Chenango Co., population 1,049; buildings, wood, 1½ to 3 stories; wooden roofs permitted. Fire department—2 hose carriages; hose, cotton good 1,200 ft, inferior 1,200 ft; total ann expenses of department \$150; total membership 60, volunteers; bell alarm. Chief engineer, Dr. R. D. L. Evans.*

WATER SUPPLY—Source, artesian wells, springs; system, gravity, pumping to 2 reservoirs; 22 hydrants; pipe 7 miles, 6 in; pressure 115 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$300. Mgr, J. M. Roberts.

Baldwinsville, Onondaga Co., population 3,500; fire area 300 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, cotton good 1,500 ft, rubber good 300 ft, linen good 200 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,500; total ann expenses of department \$400; total membership 10, paid \$25 per annum; bell alarm. Chief engineer, W. A. Healer.*

WATER SUPPLY—Source, well; system, pumping to standpipe, cap 117,000 gals; pumping engines, dy cap 1,000,000 gals; 72 hydrants; pipe 8½ miles, 4 to 12 in dia; 22 valves; 428 taps; pressure 87 pounds; waterworks owned by city; cost to construct \$80,000. Supt, William Rodgers.

Ballston Spa, Saratoga Co., population 3,527; fire area 640 acres; buildings, wood; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 4 hose carriages; hose, cotton 2,000 ft, rubber 1,000 ft, leather good 300 ft, inferior 200 ft; value of fire department equipment \$4,500; 2 buildings occupied; total membership 95; bell alarm. Chief engineer, Archie H. Spear.*

WATER SUPPLY—Source, springs; system, gravity; 2 reservoirs, dy cap 150,000 gals; 140 hydrants; 15 miles pipe, 3 to 12 in dia; 30 valves; pressure 40 to 55 ft; waterworks owned by village; cost to construct \$150,000; ann expenses \$500. Supt, Peter J. Quest.

Batavia, Genesee Co., population 8,500; mercantile buildings, brick, 3 stories; private, wood 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 3,500 ft, inferior 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of fire department \$7,888.65; total membership 115, volunteers; Gaynor alarm with 18 street boxes and 2 private; 1 hook and ladder company, 3 hose companies. Chief engineer, C. B. Austin.

WATER SUPPLY—Source, Tonawanda creek; system, pumping direct; pumping engines, dy cap 3,500,000 gals; 80 hydrants; 11 miles pipe, 4 to 12 in dia; valves 30; pressure, domestic 60, fire 125 pounds; waterworks owned by city; cost to construct to date \$150,000; ann expenses \$4,000. Supt, James Manning.

Bath, Steuben Co., population 3,300; fire area 14 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, alarm couplings used; hose, cotton good 2,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$4,700; total ann expenses of department \$778.97; total membership 80; bell alarm system. Chief engineer, John McNamara.

WATER SUPPLY—Source, Cassion well; system, pumping to standpipe; standpipe cap 300,000 gals; pumping engines, dy cap 1,200,000 gals; hydrants 76; pipe 7½ miles, 40 to 10 in dia; 25 valves; 244 taps; pressure, domestic 80, fire 150 pounds; waterworks owned by company; cost to construct \$75,000. Supt, F. E. Bryant.

Bath Beach, Kings Co., population 3,500 to 7,000; fire area 1 sq mile; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, linen good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$800; total ann expenses of department \$1,884.97; total membership 55 active and 29 honorary; bell alarm. Chief engineer, Charles P. Bateman.*

WATER SUPPLY—Source, wells.*

Bay Ridge, Kings Co., population 1,500; fire area 3 sq miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft, inferior 200 ft; total membership 60, volunteers; bell alarm; 3 fire companies.

WATER SUPPLY—Source, driven wells; system, pumping direct; cap of pumps 7,500,000 gals; 6 hydrants; pipe 30 miles, 18 to 4 in; pressure, domestic 80, fire 90 pounds; works owned by company.

Bay Shore, Suffolk Co., population 2,290; fire area 1 mile; buildings, wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber 1,600 ft; value of fire department equipment \$2,000; value of buildings occupied \$200; total membership 80, volunteers. Chief, John Daggett.*

WATER SUPPLY—Source, wells; system, pump to standpipe, cap 350,000 gals; dy cap 2,000,000 gals; pumping engines; hydrants 200; pipe 28 miles, 4 to 10 in dia; 180 valves; pressure 65 pounds; works owned by company; cost to construct \$300,000. Supt, C. G. Sanda.*

Berlin, Rensselaer Co., population estimated 650; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. No fire department; bucket brigade.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,000,000 gals; hydrants 1; pipe 3 miles, 4 and 6 in dia; pressure 80 to 85 pounds; works owned by company; cost to construct \$3,000; ann expenses \$100. Pres, W. F. Taylor. Secy and treas, H. C. Gifford.*

Binghamton, Broome Co., population 45,000; fire area 2,800 acres; mercantile buildings, brick and stone, 4 to 7 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemical extin-

guishers, 2 hook and ladder trucks, 1 aerial truck, 3 hose carriages, 4 hose wagons, 1 supply wagon; hose, cotton good 4,000 ft, inferior 1,850 ft; 13 horses, value \$2,800; value of fire department equipment \$40,000; value of buildings occupied \$28,000; total ann expenses of department \$18,000; total membership 450, paid full time 14, volunteers 436; Gamewell electric alarm; 33 street boxes. Chief engineer, Chas. N. Hogg.

WATER SUPPLY—Source, wells and Susquehanna river; system, direct pumping; pumping engines, dy cap 18,000,000 gals; 468 hydrants; pipe 52 miles, 4 to 24 in dia; 550 valves; 5,295 taps; pressure, domestic 65, fire 85 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct to date \$450,000; ann expenses \$15,000. Pres of com, Duncan R. Grant; supt, Darwin Felter.

Black Brook, Clinton Co., population 400; fire area 20 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical extinguisher, 1 hose carriage; hose, cotton good 300 ft, leather good 200 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; bell alarm.*

WATER SUPPLY—The entire village is owned by the J. and J. Rodgers Iron Co., who for the protection of their property have a force pump with several hydrants, including the above fire protection.*

Bliss, Wyoming Co., population 550; fire area 80 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$750; total ann expenses of department \$250; total membership 40, volunteers; 2 fire companies, 1 engine company, 1 hose company; bell alarm. Chief engineer, Geo. B. Chase.

WATER SUPPLY—Source, springs 2 miles distant; system, gravity; hydrants 10; works owned by company.

Blythebourne, Kings Co., population about 2,000; fire area 2 sq miles; mercantile buildings, wood, 2½ stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 chemical engines on wheels, 2 hook and ladder trucks, 2 hose carriages, 2 hose wagons; hose, rubber good 200 ft, poor 100 ft, cotton good 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,500; total membership 101, volunteers; bell alarm. Foreman, W. M. Dukover.

Bolivar, Allegany Co., population 2,300; fire area 200 acres; mercantile buildings, wood, 1½ and 2 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—4 hose carriages, all kinds; hose, cotton good 1,000 ft, rubber good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department \$500; total membership 125, volunteers; bell alarm. Chief engineer, S. W. McKilvey.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 2,400 bbls; dy cap 10,000 gals; 24 hydrants; pipe 20 miles, 5 in dia; pressure 125 pounds; works owned by village; cost to construct \$10,000; ann expenses \$400. Village clerk, C. W. Williamson.*

Booneville, Oneida Co., population 1,613; fire area 845 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wood and tin roofs. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber poor 800, leather good 1,000 ft; value of equipment \$11,000; total membership 125, volunteers. Chief engineer, A. C. Reddy.*

WATER SUPPLY—Source, pond, canal, creek and river force pump; system, pump to 7 reservoirs; 4 hydrants; pipe 800 ft, 4 in dia; 8 valves; works owned by village; cost to construct \$11,000. Village clerk, A. E. Merrill.*

Brewster, Putnam Co., population 1,800; fire area 160 acres; buildings, brick and wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder

truck, 10 chemical extinguishers, 3 hose carriages; hose, cotton good 1,800 ft, inferior 500 ft; value of fire department equipment \$7,500; value of buildings occupied \$2,000; total ann expenses of department \$1,200; total membership 54, volunteers. Chief engineer, H. B. Hodge.

WATER SUPPLY—Source, streams and cisterns, cap 60,000 gals; this source used for fire purposes only, supply by wells and springs for domestic purposes. Town clerk, Richard Mitchell.

Broadalbin, Fulton Co., population 708; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, rubber buckets; hose, rubber good 225 ft; value of fire department equipment \$500; value of buildings occupied \$500; total ann expenses of department \$100; total membership 33. Foreman, E. J. Greenleaf.

WATER SUPPLY—Source, mill, wells and stream; system, pumping from mill and wells; 12 hydrants; pipe size 1 inch; works owned by company. Town clerk, F. G. Fuller.

Brookport, Monroe Co., population 3,742; mercantile buildings, brick, 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted, fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 protective wagon; siamese couplings used; hose, cotton good 2,300 ft; value of fire department equipment \$10,000; value of 1 building owned \$20,000; total membership 200, volunteers; bell alarm. Chief, J. A. Getty.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 250,000 gals; dy cap 2,000,000 gals; 76 hydrants; pipe 12 miles, 4 to 10 in dia; 50 meters; quality of water pure; pressure 75 pounds; waterworks owned by company; cost to construct \$100,000. Supt, R. C. Hail.

Brooklyn, Kings Co., population 978,394; fire area 14,000 acres; mercantile buildings, brick, stone and iron, 2½ to 10 stories; private, brick, stone and wood, 2½ to 5 stories; wooden roof permitted; fireworks ordinance; causes of fire investigated. Fire department—36 steam fire engines (4 reserve), 80 chemical extinguishers, 15 aerial trucks (3 reserve), 43 hose carriages, all kinds (8 reserve), 2 fire boats; hose, good 31,750 ft, rubber good 22,285 ft; 198 horses, value \$300 each; value of fire department equipment \$675,800; value of buildings occupied \$780,000; total ann expenses of department, in 1898, \$1,041,784.31; total membership 702, paid full time; Pearce & Jones and Gamewell alarm; street boxes 496 and 132 private. Chief engineer, James Dale.

WATER SUPPLY—Source, streams and driven wells; system, pumping to reservoir; storage reservoir cap 1,000,000,000 gals; distributing reservoir cap 360,000,000 gals; high service reservoir cap 414,000,000 gals; cap of tower 112,000 gals; pumping engines, dy cap 414,000,000 gals; 4,900 hydrants; pipe 475 miles, 6 to 48 in dia; 3,860 valves; 2,345 meters; pressure, domestic 35 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct about \$14,000,000; ann expenses \$1,618,138.62. Water Purveyor, Peter Milline. Chief engineer, Van Brunt Bergen.*

Buffalo, Erie Co., population 300,000; fire area 25,345 acres; mercantile buildings, iron, stone, brick and wood, 3 to 9 stories; private, stone, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—24 steam fire engines, 5 chemical engines on wheels, 12 chemical extinguishers, 7 hook and ladder trucks, 4 aerial trucks, 22 hose carriages, all kinds, 5 hose wagons, 1 fire boat, 1 water tower; hose, cotton good 60,000 ft; 160 horses, value \$32,000; value of fire department equipment \$402,400; value of buildings occupied \$400,000; total ann expenses of department \$396,384.85; total membership 375, paid full time; Gamewell alarm; 260 street boxes. Chief engineer, B. J. McConnell; commissioners, E. H. Hutchinson, F. F. Zeller, J. Davis.

WATER SUPPLY—Source, Niagara river; system, pumping direct and to reservoir; reservoir cap 140,000,000 gals; pumping engines, dy cap 115,000,000 gals; 3,400 hydrants; pipe 398 miles, 4 to 36 in dia; 5,002 valves; 42,000 taps; quality of water good; pressure, domestic 25 pounds; fire same; works owned by city; cost to construct \$6,000,-

000. to date \$7,000,000; ann expenses \$650,000. Pres, G. S. Field; supt, P. Drexellus.

Caldwell, population 500; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$400; total membership 32, volunteers; bell alarm; 1 hose company. Foreman, Edw. D. Irish.

WATER SUPPLY—Source, brook; system, gravity; 12 hydrants; pipe 5 miles, 6 to 4 in dia; 8 valves; pressure 180 to 200 pounds; works owned by individual; cost to construct \$8,000; ann expenses \$500. Pres, Samuel M. Bates.*

Cambridge, Washington Co., population 1598; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 chemical extinguishers, 3 hose carriages; siamese couplings used; hose, cotton good 2,500 ft, rubber good 550 ft, leather good 200 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 94, paid 1; bell alarm. Chief engineer, John L. Agran.

WATER SUPPLY—Source, springs; system, gravity; pumping to reservoir, thence direct pumping; 2 reservoirs, cap 7,000,000 gals; pumping engines, dy cap 1,300,000 gals; 35 hydrants; pipe 8½ miles; pressure 85 pounds; waterworks owned by company; cost to construct to date \$47,500; ann expenses \$400. Supt, C. T. Hawley.

Camden, Oneida Co., population 3,000; fire area 40 acres; mercantile buildings, brick, 3 and 4 stories; private, wood and brick, 2 and 2½ stories; wooden roof permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages all kinds; hose, cotton good 450 ft, linen good 400 ft, leather 400 ft, rubber good 400 ft; value of fire department equipment \$4,500; value of buildings occupied \$1,000; total ann expenses of department \$250; total membership 81, volunteers; bell alarm. Chief, G. W. Moser.

WATER SUPPLY—Source, springs and surface water; system, gravity; 1 reservoir; 39 hydrants; pipe 7 miles; valves; pressure, fire 71 pounds; waterworks owned by village; cost to construct \$40,000; ann expenses \$200. Supt, Thos. K. Panks.*

Canajoharie, Montgomery Co., population 2,100; buildings, brick 1½ and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, good 3,000 ft; total membership 150, volunteers. Chief, W. J. Abeling.

WATER SUPPLY—Source, springs and stream; system, gravity; pumping to tank and reservoir; cap of pond 2,000,000 gals; reservoir cap 280,500 gals; tank 700 gals; pumping engines, dy cap 20,278 gals; 17 hydrants; pipe 3½ miles, 30 to 2 in dia; 39 valves; pressure 20 pounds; works owned by company; cost to construct \$25,000; ann expenses \$500. Supt, R. Spraker.*

Canandaigua, Ontario Co., population 5,858; fire area 2,000 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines (only one in commission), 2 chemical extinguishers, 2 hook and ladder trucks, 8 hose carriages, all kinds; hose, cotton good 3,500 ft, inferior 200 ft, linen inferior 300 ft; value of fire department equipment \$13,500; value of buildings occupied \$12,000; total ann expenses of department \$750; total membership 125, paid part time 5, volunteers 120; Gamewell alarm; 1 hook and ladder company, 3 hose companies. Chief engineer, James S. Fogarty, Jr.

WATER SUPPLY—Source, Canandaigua lake; system, pumping to tank and direct; tank cap 380,000 gals; pumping engines, dy cap 3,000,000 gals; 100 hydrants; 6 meters; pipe 14 miles, 4 to 14 in dia; pressure, domestic 40 to 50, fire 70 to 100 pounds; waterworks owned by company; cost to construct \$180,000; ann expenses \$5,000. Pres of com and supt, Frank B. Merrill.*

Cananda, Kings Co., population 5,000; fire area 400 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; shingle roofs used; fire works ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder

truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of department \$200; total membership 130, volunteers; bell alarm. Chief engineer, Wm. H. Thomas.

WATER SUPPLY—Source, wells.

Canastota, Madison Co., population 3,000; fire area 1 square mile; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 Babcock chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, rubber good 1,500 ft, leather inferior 400 ft; value of equipment \$4,000; value of buildings occupied \$4,000; ann expenses \$800; total membership 75, volunteers; bell alarm. Chief engineer, Paul Grimer.

WATER SUPPLY—Source, creek; system, gravity; reservoir cap 7,000,000 gals; 55 hydrants; pipe 7-8-4 miles, 4 to 16 in dia; 29 valves; 246 taps; pressure 160 pounds; waterworks owned by village; cost to construct \$70,000; ann expenses \$904. Supt, D. Gee.

Cander, Tioga Co., population estimated 1,500; fire area 10,000 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine; hose, rubber inferior 200 ft; value of fire department equipment \$100; value of buildings occupied \$100; total membership 12, volunteers. Chief engineer, N. W. Griffin.*

WATER SUPPLY—Source, cisterns, pumps and creeks.*

Canistota, Steuben Co., population 2,071; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 1 set protective apparatus; hose, linen good 2,300 ft, cotton inferior 400 ft; value of fire and water department equipment \$55,000; value of buildings occupied \$4,000; total ann expenses of department \$900; total membership 140, volunteers; bell alarm. Chief engineer, Eugene Hall.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 2,000,000 gals; 51 hydrants; pipe 7½ miles, 4 to 10 in dia; 30 valves; 196 taps; pressure 71½ pounds; waterworks owned by company; cost to construct \$45,000. Pres and supt, O. O. Laine.

Canton, St. Lawrence Co., population 2,580; fire area entire village; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted on main streets; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 3 hose wagons; hose, cotton good 1,500 ft, inferior 500 ft, rubber good 500 ft; value of fire department equipment \$7,500; value of buildings occupied \$2,500; total ann expenses of department \$700; total membership 40 volunteers; bell alarm. Chief engineer, Edwin Aldrich.

WATER SUPPLY—Source, De Grasse river; system, pump to standpipe, cap 170,000 gals; steam pumping engines, dy cap 1,000,000 gals; 52 hydrants; pipe 5½ miles, 4 to 8 in dia; 45 valves; 240 taps; pressure 50 to 80 pounds; works owned by city; cost to construct \$40,000; ann expenses \$1,600. Supt, F. L. Ingalls.

Cape Vincent, Jefferson Co., population 1,334; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 Remington horse-power engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft; value of fire department equipment \$1,000; value of new buildings occupied \$4,000; total membership 120; bell alarm; 3 fire companies. Chief engineer, M. S. Cornale.

WATER SUPPLY—Source, river and 3 tanks. Mayor, Henry Peo; village clerk, M. E. Lee.

Carthage, Jefferson Co., population 2,278; fire area 680 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hose carriages, 1 hook and ladder truck, siamese couplings used; hose, linen good 1,600 ft, rubber inferior 1,000 ft; value of fire department equipment \$6,500; value of buildings occupied \$6,000; total ann expenses of department \$700; to-

tal membership 110, volunteers; bell alarm. Chief engineer, M. C. Paul.

WATER SUPPLY—Source, river; system, pumping to stand pipe; stand pipe cap 500,000 gals; pumping engines, dy cap 1,000,000 gals; 50 hydrants; pipe $4\frac{1}{2}$ miles, 12 to 4 in dia; 40 valves; 103 taps; pressure 80 to 150 pounds; works owned by city; cost \$43,500; cost to date \$49,750. Supt, T. J. Quinn.

Castle, Wyoming Co., population 1,146; fire area 300 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,800 ft, rubber 350 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,000; total ann expenses of department \$3.25; total membership 50, volunteers; bell alarm. Chief engineer, E. A. Pierce.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 256,000 gals; 27 hydrants; pipe $9\frac{1}{2}$ miles, 10 to 3 in dia; 25 valves; pressure 65 to 100 pounds; cost to construct \$38,000. Secy and supt, M. N. Cole.

Castleton, Rensselaer Co., population 1,200; mercantile buildings, brick and wood, 2 and 3 stories; private brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hose carriages; hose, linen good 1,500 ft; value of fire department apparatus \$5,000; value of buildings occupied \$2,500; total membership 70, volunteers. Chief engineer, Jas. Van Buren.

WATER SUPPLY—Source, fire purposes Hudson river and reservoirs; domestic, wells and private reservoirs and springs. Pres, B. W. Stryker; village clerk, F. Hill.

Catakill, Greene Co., population 5,000; fire area 2,500 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, 2 hose ladders; hose, rubber good 2,650 ft, cotton inferior 300 ft; value of fire department equipment \$8,000; value of buildings occupied \$12,000; total ann expenses of department \$800; total membership 180, paid full time 1, volunteers 204; electric alarm; 10 street boxes; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, Alex. Wilcox.

WATER SUPPLY—Source, Hudson river; system, pumping to reservoir; cap 4,000,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 108 hydrants; pipe 10 $\frac{1}{2}$ miles; 50 valves; pressure 100 pounds; waterworks owned by city; cost to construct \$150,000, to date \$158,000; ann expenses \$5,500. Supt, Wm. Comfort.

Cattaraugus, Cattaraugus Co., population 1,200; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$1,500; value of buildings occupied \$2,500; membership 50, volunteers. Chief, S. F. Burger.

WATER SUPPLY—Source, spring and brooks; system, gravity; reservoir cap 1,500,000 gals; 50 hydrants; pipe 4 miles, 8 to 1 $\frac{1}{2}$ in dia; 13 valves; pressure, domestic 43 to 105, fire 40 to 95 pounds; waterworks owned by company; cost to construct \$43,000; ann expenses \$23. Supt, S. F. Burger.

Cazenovia, Madison Co., population 1,987; fire area 1 $\frac{1}{2}$ sq miles; mercantile buildings, brick and stone, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 5 hose carriages; hose, leather good 1,000 ft, inferior 300 ft, cotton good 1,850, inferior 150 ft; value of fire department equipment \$8,000; total ann expenses of department \$708; total membership 72, volunteers; bell alarm; 3 fire companies. Chief engineer, W. J. Dwyer.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 9,000,000 gals; pumping engines, dy cap 250,000 gals; 39 hydrants; pipe 8 miles, 4 to 12 in dia; 37 valves; 133 taps; pressure 60 pounds; works owned by village; cost to construct \$41,000; ann expenses \$450. Supt, M. E. Carse.

Centre Moriches, Suffolk Co., population 1,500; fire area 3 sq miles; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder

der truck; value of fire department equipment \$1,050; value of buildings occupied \$500; total ann expenses of department \$50; total membership 45, volunteers. Chief engineer, Frank McGregor. No water supply.*

Champlain, Clinton Co., population 1,500; mercantile buildings, brick, 4 stories; private, brick; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 300 ft, rubber good 400 ft; value of buildings occupied \$600; total membership 70, volunteers; bell alarm. Chief engineer, Ransom W. Graves.*

WATER SUPPLY—Source, wells.*

Chateaugay, Franklin Co., population 1,200; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 1 $\frac{1}{2}$ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft, poor 300 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,000; total ann expenses of department \$900; total membership 35, volunteers; bell alarm; 1 hook and ladder company, 3 hose companies. Chief engineer, John Hughes.

WATER SUPPLY—Source, springs; system, gravity; 14 hydrant; pipe 4 miles, 4 to 6 in dia; 150 valves; pressure 45 to 60 pounds; waterworks owned by company; cost to construct \$10,000; ann expenses \$100. Supt, Barney Harvey.*

Chatham, Columbia Co., population 2,000; mercantile buildings, brick, 3 stories; private, wood, 2 stories; tin roofs; fireworks ordinance. Fire department—3 hose carriages, hooks and ladders; hose, cotton good 1,500 ft, inferior 500 ft; value of fire department equipment \$2,350; value of buildings occupied \$4,000; total ann expenses of department \$400; total membership 45, volunteers. Chief engineer, H. A. Blunt.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 1,500,000 gals; 44 hydrants; pipe 15 miles, 4 to 1 $\frac{1}{2}$ in dia; 30 valves; 350 taps; pressure, domestic 80, fire 100 pounds; waterworks owned by company; cost to construct \$100,000, to date \$117,000; ann expenses \$2,000. Supt, Barten S. Hollenbeck.

Chittenango, Madison Co., population 792; fire area 330 acres; buildings, brick, 2 and 2 $\frac{1}{2}$ stories; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton 1,500, rubber 50 ft; value of fire department equipment \$2,100; value of buildings occupied \$2,000; total ann expenses of department \$100; total membership 40, volunteers; bell alarm. Chief engineer, R. S. Carl.

WATER SUPPLY—Source, creeks; 13 hydrants; $\frac{1}{2}$ mile pipe, 12 in dia. Village clerk, Thomas C. Bassett.*

City Island, Westchester Co., population 1,500; fire area 340 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage; hose, cotton good 1,000 ft, inferior 200 ft; value of fire department equipment \$4,000; total ann expenses of department 200; total membership 32, volunteers; bell alarm. Foreman, James D. Bell.

WATER SUPPLY—Source, Pelhamville, 8 artesian wells; hydrants 23; pipe 2 $\frac{1}{2}$ miles, 8 in dia; pressure 20 pounds.

Clayton, Jefferson Co., population 2,000; fire area 1 sq mile; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 1 $\frac{1}{2}$ and 2 stories; roofs mostly metal; fireworks ordinance. Fire department—1 steam fire engine, several chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton rubber linen 1,500 ft, rubber good 300 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses \$100; total membership 95, volunteers; whistle and bell alarm. Chief engineer, Joseph H. Brabant.

WATER SUPPLY—Source, river.

Clifton, Richmond Co. (See Edgewater.)

Clifton Springs, Ontario Co., population 1,800; fire area 350 acres; mercantile buildings, brick and wood, 1 to 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 stationary fire engine, 84 chemical extinguishers, 1 hook and ladder truck, 2 hose car-

riages, ladders and buckets, 150 glass bottles, 50 glass pails containing chemicals; hose, cotton good 2,000 ft, rubber good 1,000 ft, leather good 1,000 ft, inferior 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,700; total membership 75, volunteers; 1 hook and ladder company, 1 hose company; whistle alarm. Chief engineer, George Musket.

WATER SUPPLY—Source, springs, 2 miles distant; system, pump to reservoir; 7 hydrants; pressure 60 pounds. Supt, Dr. Henry Foster.

Clinton, Oneida Co., population 1,269; fire area 2,560 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose cart; hose, linen good 1,300 ft, leather good 750 ft; rent of buildings occupied \$200; total ann expenses of department \$300; total membership 85, volunteers; bell alarm. Chief engineer, Francis Tasker.

WATER SUPPLY—Source, springs; system, gravity; impounding reservoir, cap 3,000,000 gals; 41 hydrants; pipe 8 miles, 4 to 16 in dia; 20 valves; 140 taps; pressure 85 to 100 pounds; waterworks owned by village; cost to construct \$37,000; ann expenses \$400. Pres of com, Chas. Everett; supt, F. A. Gruman.

Clyde, Wayne Co., population 3,000; fire area 960 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 chemical engines on wheels, 8 chemical extinguishers (private), 1 hook and ladder truck, 5 hose carriages, 1 hose cart; hose, cotton good 500 ft, linen good 2,000 ft, inferior 300 ft, rubber good 400 ft; total ann expenses of department \$2,500; total membership 100, paid full time 2; bell alarm. Chief engineer, A. E. Adams.

WATER SUPPLY—Source, Clyde river; system, pumping to standpipe; standpipe cap 200,000 gals; pumping engine, dy cap 1,000,000 gals; 41 hydrants; pipe 5 1-2 miles, 4 to 10 in dia; valves; pressure, domestic 75, fire 75 to 100 pounds; filtered; waterworks owned by company; cost to construct \$80,000. Supt, E. M. Ellinwood.

Cobleskill, Schoharie Co., population 2,200; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine (not in use), 1 hook and ladder truck, 2 hose carriages; hose, good 1,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$500; 115 members; bell alarm. Chief elected by members, F. M. Dunokle.

WATER SUPPLY—Source, reservoir located at mineral springs; system, gravity; 1 reservoir, cap 110,000,000 gals; 48 hydrants; pipe 6 miles, 4 to 16 in dia; 33 valves; 168 taps; pressure 85 pounds; works owned by city; cost to construct \$65,000; ann expenses \$250. Supt, Clarence Fox.

Coeymans Junction, Albany Co., population 800; fire area 640 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hose carriage, 1 supply wagon; hose, linen good 500 ft, rubber good 250 ft, cotton good 250 ft; 2 horses; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$1,500; total membership 75, volunteers; whistle alarm; 2 fire companies. Chief engineers, John Gay, M. R. Crawford.

WATER SUPPLY—Source, 1 large cistern; cap of larger 30,000 gals; 2 hydrants. City clerk, J. M. Russell.

Cohocton, Steuben Co., population 3,444. Fire department—1 engine, 1 hook and ladder truck, hose; total membership 40, all volunteers. Chief engineer, J. M. Reynolds.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 225,000 gals; hydrants 37; pipe 7 1-2 miles, 8 to 4 in dia; 225 taps; pressure 100 to 125 pounds; waterworks owned by city; cost to construct \$22,500. Pres. of com, A. H. Wilcox.

Cohoes, Albany Co., population 23,580; fire area 1,280 acres; mercantile buildings, stone, brick and wood, 4 and 5 stories; private, brick and wood, 2 to 4 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated.

Fire department—3 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, 1 hose wagon, 1 supply wagon; hose, leather good 7,500 ft, rubber new 500 ft; 7 horses, value \$1,400; value of fire department equipment \$32,000; value of buildings occupied \$42,000; total ann expenses of department \$15,000; total membership 98, paid full time 12, paid part time 8; telegraph alarm; 27 street boxes; 3 engine companies, hook and ladder company, 2 hose companies. Chief engineer, R. S. Calkins.

WATER SUPPLY—Source, Mohawk river; system, pumping to reservoir; 3 reservoirs, cap 92,000,000 gals; 3 pumping engines, dy cap 2,000,000 gals; 238 hydrants; pipe 28 miles, 4 to 24 in dia; 375 gates; 67 meters; pressure 50 to 95 pounds; cost to construct \$286,000; ann expenses \$17,000. Supt, A. F. Kniffin.

Cold Spring, Putnam Co., population estimated 1,800; buildings, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. No fire department.

WATER SUPPLY—Source, springs, cisterns and wells. Village clerk, Colin Toimie. Waterworks contemplated.

College Point, Queens Co., population 6,127. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 3,200 ft; total membership 90, all volunteers. Chief engineer, Peter Schriener.

WATER SUPPLY—Source, pond and wells at Meadow brook; system, direct pumping; pumping engine, dy cap 400,000 gals; 63 hydrants; pipe 14 3-4 miles, 12 to 6 in dia; 80 valves; 732 taps; pressure, domestic 65, fire 95 pounds; Edison pressure recording gauge; waterworks owned by village; cost to construct \$218,000, to date \$297,000; ann expenses \$5,200. Supt, Chas Fuchs.

Collins Centre, Erie Co., population 500; fire area 500 acres; mercantile buildings, wood, 1 1-2 and 2 stories; private, wood, 1 1-2 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 200 ft, rubber good 100 ft; value of equipment \$500; value of buildings occupied \$150; membership 65. Chief, John Hammon.

WATER SUPPLY—Source, wells.

Coney Island, Kings Co., population 3,313; fire area 800 acres; mercantile buildings, wood, 2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$4,000; total ann expenses of department \$1,000; total membership 132, volunteers; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Robt. J. P. Sutherland.

WATER SUPPLY—Source, driven wells; system, pumping direct; pumping engine, dy cap 400,000 gals; 68 hydrants; pipe 8 miles, 12 to 6 in dia; 20 valves; pressure, domestic 40, fire 75 pounds; cost to construct \$80,000; ann expenses \$5,500. Supt, Isaac G. Ring.

Constatleville, Lewis Co., population 600; fire area 640 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical extinguisher (private), 2 hose carriages, 4 ladders; hose, rubber good 300 ft, poor 300 ft, cotton good 700 ft, leather inferior 100 ft; value of equipment \$3,500; value of buildings occupied \$1,000; total ann expenses of department \$125; total membership 42, 2 paid part time, volunteers; bell alarm; 1 engine company, 1 hose company. Chief engineer, James Hinton.

WATER SUPPLY—Source, creek and well ponds; 9 reservoirs, cap 1,000 bbls each; pumping engine, dy cap 620 gals per min; 14 hydrants; pipe 4,500 ft, 2½ to 5 in; works owned by village. Supt, H. C. Scoville; town clerk, W. R. Wadsworth.

Cooperstown, Otsego Co., population 2,637; fire area 500 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, 1 cotton good 2,100 ft, rubber good 400 ft, poor 550 ft; value of fire department equipment \$5,500; value of buildings occupied \$20,000; total membership 135, volunteers. Chief engineer, L. A. Brainard.

WATER SUPPLY—Source, Otsego lake; system, direct pumping; 2 pumps, water power, combined

cap 1,000,000 gals dy; 41 hydrants; pipe 6½ miles, 4 to 8 in dia; 80 valves; pressure, domestic 75, fire 100 pounds; waterworks owned by company; cost to construct \$50,000; ann expenses \$400. Supt, J. Warren Lamb.*

Corning, Steuben Co., population 10,000; fire area 50 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 2 hook and ladder trucks, 6 hose carriages, slamese couplings used; hose, linen good 3,000 ft, rubber good 1,500 ft; new fire quarters value \$35,000; value of fire department equipment \$2,500; total ann expenses of department \$1,800; total membership 200, volunteers; electric telegraph alarm; 15 street boxes. Chief engineer, F. D. Rockwell.

WATER SUPPLY—Source, Monkey Run creek and springs; system, gravity and pumping to reservoir and direct, reservoir cap 3,500,000 gals; pumping engine, dy cap 1,000,000 gals; 80 hydrants; pipe 8 miles, 4 to 10 in dia; 100 meters; pressure 80 pounds; waterworks owned by city, leased to Heermans & Lawrence; cost to construct \$65,000. Supt, H. C. Heermans.

Cornwall, Orange Co., population 760; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, cotton rubber lined good 400 ft, rubber good 275 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 57, volunteers. Foreman, George M. Byard; secy, Gilbert T. Cocks.

WATER SUPPLY—Source, domestic wells, river and cisterna, fire brook running through village.

Cortland, Cortland Co., population 8,590; fire area 2,560 acres; mercantile buildings, brick and wood, 3 and 4 stories; private, wood, 2 stories; mostly tin roofs, fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 extra extension ladder; hose large quantity; total membership 210, volunteers; fire police; electric alarm. Chief engineer, N. J. Peck. (Hook and ladder truck and 700 feet hose contemplated.)

WATER SUPPLY—Source, springs; system, pumping to standpipe; standpipe cap 400,000 gals; pumping engine, dy cap 4,000,000 gals; 128 hydrants; pipe 16 miles, 4 to 12 in dia; 83 valves; pressure 72 to 150 pounds; waterworks owned by company; 800 taps; cost to construct \$160,000; ann expenses \$10,500. Supt, B. F. Taylor.

Coxsackie, Greene Co., population 1,611; fire area 300 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, good 1,600 ft, inferior 500 ft; value of fire department equipment \$5,500; value of 2 buildings occupied \$3,500; total ann expenses of department \$70; total membership 83, volunteers. Chief engineer, Wm. K. Reed.

WATER SUPPLY—Source, river, cisterna, wells and springs. (Waterworks contemplated, surveys, etc, have been made. T. B. Alcott, pres of water commission.)

Cranston, (See Highland Falls).

Croghan, Lewis Co., population estimated 800; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 800 ft; value of fire department equipment \$1,500; value of buildings occupied \$700; total membership 50, volunteers; bell alarm. Chief engineer, Adolph Martin.*

WATER SUPPLY—Not described; reservoirs.*

Croton, Delaware Co., population 400; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 250 ft; value of fire department equipment \$300; value of buildings occupied \$800; membership 25, volunteers; bell alarm. Chief, E. Willson; foreman, B. F. Drake.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 80,000 gals; 5 hydrants; pipe 3 miles, 4 in dia; 3 valves; 50 taps; pressure 40 to 60 pounds; works owned by company; cost to con-

struct \$6,500. Pres, A. Payne; supt, L. Saunders.

Cuba, Allegany Co., population 2,000; fire area 1 sq mile; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, 3 hose wagons; hose, cotton good 500 ft, rubber good 1,500 ft, linen good 800 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$200; total membership 125, volunteers; bell alarm; 3 fire companies. Chief engineer, W. A. Bates.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 900,000 gals; 39 hydrants; pipe 9 miles, 4 to 8 in dia; 38 valves; 280 taps; pressure, domestic 83 pounds, fire same; works owned by village; cost to construct \$36,000; ann expenses \$200. Supt, A. C. Bradford.

Danville, Livingston Co., population 3,758; mercantile buildings, brick, 2, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, protective carriage and outfit; hose, linen good 3,700 ft; value of fire department equipment \$3,700; value of buildings occupied \$6,000; total ann expenses of department \$800; total membership 125, volunteers; electric alarm; 7 street boxes; 4 fire companies. Chief engineer, B. G. Readshaw.

WATER SUPPLY—Source, Mill creek; system, gravity; reservoir cap 1,000,000 gals; 54 hydrants; pipe 4 miles, 4 to 10 in dia; pressure 77 pounds; waterworks owned by village; cost to construct \$25,000; ann expenses \$500. Supt, Jacob Huver.*

David's Island, Military Post, Westchester Co., population 800; fire area 80 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages, hooks and ladders; hose, cotton good 1,200 ft, rubber good 300 ft; value of fire department equipment \$2,000. Capt, J. W. Summerhaves; asst, Q. M. U. S. A.

WATER SUPPLY—Source, supplied from New Rochelle Waterworks.

Delevan, Cattaraugus Co., population 1,000; fire area 400 acres; mercantile buildings, brick and iron, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, ladders, hooks, etc.; hose, cotton good 550 ft; value of fire department equipment \$500; total ann expenses of department \$500; total membership 39, volunteers; bell alarm. Chief engineer, L. J. Cheney.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 10,000,000 gals; hydrants 19; pipe 5 miles, 6 to 4 in dia; 10 valves; pressure, domestic 62, fire 62 pounds; waterworks owned by company; original cost to construct \$18,000. Supt, W. F. Persons.

Delhi, Delaware Co., population 1,564; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 chemical extinguishers (private), 1 hook and ladder truck, 4 hose carriages, slamese couplings used; hose, cotton 1,700 ft, leather good 200 ft, inferior 450 ft; value of fire department equipment \$6,000; value of 2 buildings occupied \$4,000; total membership 150, volunteers; bell alarm. Chief engineer, J. K. Hood.*

WATER SUPPLY—Source, brook; system, gravity; reservoir cap 500,000 gals; 34 hydrants; pipe 4 miles, 3 to 12 in dia; 19 valves; 240 taps; pressure 40 pounds; waterworks owned by company; cost to construct \$25,000; ann expenses \$250. Supt, J. Middlenist.

Deposit, Broome Co., population 1,530; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,700; total ann expenses of department \$220; total membership 75, volunteers; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, B. Knapp.*

WATER SUPPLY—Butler Brook, 1½ miles N. of

village; system, gravity; 38 hydrants; pipe 7 miles, 4 to 10 in dia; 140 taps; pressure 65 pounds; waterworks owned by company; cost to construct \$28,000, to date \$30,000; ann expenses \$150. Supt, M. C. Putnam.

De Ruyter, Madison Co., population 667; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine.*

WATER SUPPLY—Source, spring; system, pumping to reservoir; 7 reservoirs cap 150 bbls each; 14 miles pipe; works owned by village; cost \$3,500; ann expenses \$50.

Dobbs Ferry, Westchester Co., population 2,700; fire area 1,000 acres; mercantile buildings, wood, 3 stories; private, wood, 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages, 1 water tower; hose, cotton good 1,500 ft; rubber 150 ft; value of fire department equipment \$3,000; value of buildings occupied \$15,000; total ann expenses of department \$500; total membership 78, volunteers. Gamewell alarm. Chief engineer, Peter J. Carpenter.

WATER SUPPLY—See Tarrytown.

Dolgeville, Herkimer Co., population 2,000; fire area 600 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, linen good 3,400 ft; value of fire department equipment \$4,000; value of buildings occupied \$500; total membership 40, volunteers; whistle alarm; 1 fire company. Chief engineer, Helon Brunkhorst.

WATER SUPPLY—Source, wells and cisterns; 3 hydrants. (Will put in waterworks this year. Have begun.) Supt, W. H. Collins.

Dryden, Tompkins Co., population 2,000; mercantile buildings, stone, brick and wood, 2 stories; private, wood, 2 stories. Fire department—1 hand engine, 4 hose carriages, all kinds; hose, new 1,000 ft; total membership 50, volunteers. Chief engineer, D. R. Montgomery.

WATER SUPPLY—Source, natural springs; system, gravity to reservoir; reservoir cap 600,000 gals; 42 hydrants; pipe $7\frac{1}{2}$ miles, 3 to 8 in dia; 32 valves; 30 taps; pressure, domestic 70, fire 80 pounds; waterworks owned by city; cost to construct \$25,000. Pres, J. H. Kennedy.

Dundee, Yates Co., population 1,200; buildings, brick and wood, 2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 24 buckets; value of fire department equipment \$800; total membership 42, volunteers; bell alarm. Chief engineer, H. V. L. Jones.

WATER SUPPLY—Source, wells.*

Dunkirk, Chautauqua Co., population 10,000; fire area 2 miles by 1 mile; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds, also 3 private hose carts, with 2,500 ft of hose at disposal of department; hose, cotton good 3,000 ft, rubber good 500 ft; 2 horses, value \$400; value of fire department equipment \$3,000; value of buildings occupied \$12,000; total ann expenses of department \$1,000; total membership 200, all volunteers; whistle and telephone alarm; (electric system will be put in). Chief engineer, A. K. Loeb. (New H. and L. truck, 2 hose carts and 1,000 ft cotton hose contemplated.)

WATER SUPPLY—Source, Lake Erie; system, direct pumping; pumping engines, dy cap 4,500,000 gals; 119 hydrants; pipe 23 miles, 3 to 12 in dia; 181 valves; pressure, domestic 50, fire 100 to 125 pounds; waterworks owned by city; cost to construct \$137,004; ann expenses \$8,500. Supt, Geo. M. Abell.*

East Aurora, Erie Co., population about 2,000; fire area 1 sq mile; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 chemical engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,250 ft, rubber inferior 500 ft; 2 horses, value \$300; value of fire department equipment \$500; value of buildings occupied \$5,000; total ann expenses of department \$300; total membership 125, volunteers; electric bell fire

alarm; 2 engine companies, 1 hook and ladder company, 1 hose company. Chief engineer, Chas. Gardner.

WATER SUPPLY—Source, springs; system, pump direct; reservoir cap 500,000 gals; pumping engines, dy cap 500,000 gals; 75 hydrants; pipe 11 miles, 10 to 4 in dia; 30 valves; 170 taps; pressure, domestic 70, fire 80 to 90 pounds; cost to construct \$50,000, to date \$55,000; ann expenses \$800. Supt, O. S. Paine. (Are building new reservoir cap 325,000 gals.)

East Randolph, Cattaraugus Co., population 900; fire area 1 sq mile; mercantile buildings, wood, $\frac{1}{2}$ to 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$600; value of buildings occupied \$750; total ann expenses of department \$925; total membership 28, volunteers; bell alarm; 1 fire company. Chief engineer, Morris Beardsley.

WATER SUPPLY—Source, springs (2); system, gravity; cap of reservoir 283,500; 15 hydrants; pipe 44 miles, 6 to 3 in dia; 11 valves; 72 taps; pressure 90 pounds; works owned by village; cost to construct \$11,500; ann expenses \$14,000. Supt, A. H. Kelms.

East Syracuse, Onondaga Co., population 3,000; fire area 320 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; total membership 100, volunteers; bell and whistle alarm; 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. M. Weaver.

WATER SUPPLY—Source, springs; system, gravity to reservoir, cap 3,500,000 gals; 60 hydrants; pipe 13 miles, 12 to 6 in dia; 59 valves; 93 taps; pressure 90 to 120 pounds; works owned by village; cost to construct \$70,000. Pres, Geo. M. Weaver.

Elizabethtown, Essex Co., population 600; fire area 450 acres; buildings, wood, 1 and 2 stories. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen 400 ft, cotton good 200 ft; value of fire department equipment \$500; total ann expenses of department \$300; total membership 35; bell alarm. Chief engineer, Milo C. Perry.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 128,000 gals; 17 hydrants; pipe 4 miles; pressure 100 pounds; waterworks owned by company; cost to construct \$20,000; ann expenses \$150. Pres of com, R. L. Hand; supt, R. C. Kellogg.

Ellenville, Ulster Co., population 2,881; fire area 700 acres; buildings, 1 to 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, hand extinguishers; hose, cotton good 2,300 ft; value of fire department equipment \$5,200; value of buildings occupied \$3,500; total membership 125, volunteers; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, F. E. Case.

WATER SUPPLY—Source, surface water; system, gravity; reservoir cap 40,000 gals; 58 hydrants; pipe 10 miles, 4 to 8 in dia; 44 valves; pressure, domestic 30, fire 130 pounds; waterworks owned by city; cost to construct \$44,000; ann expenses \$800. Supt, D. S. Williams.*

Elliottsville, Cattaraugus Co., population 1,100; fire area 1 sq mile; mercantile buildings, brick and tin; private, wood, $1\frac{1}{2}$ story; roofs iron and tin; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 500 ft, rubber good 500 ft; value of fire department equipment \$800; value of buildings occupied \$800; total ann expenses of department \$400; total membership 25, all volunteers; bell alarm.

WATER SUPPLY—Source, springs, 1 mile distant; system, gravity; cap of reservoir 200,000 gals; 16 hydrants; pipe 7 miles, 8 to 2 in dia; 15 valves; 73 taps; pressure 80 pounds; works owned by company; cost to construct \$10,000, to date \$12,000; ann expenses \$150. Pres, C. P. Vedder; supt, L. B. Nichols.

Elmira, Chemung Co., population 35,000; fire area 6 sq miles; mercantile buildings, brick, 4 and 5 stories; private, brick and wood, $\frac{1}{2}$ and 3 stories;

metal roofs principally; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose reel, 3 hose wagons, 1 supply wagon; hose, cotton good 8,000 ft, inferior 1,900 ft, rubber good 100 ft; 15 horses, value \$4,000; value of fire department equipment \$28,000; total ann expenses of department \$40,000; total membership 42, paid full time; Gamewell alarm; 54 street boxes. Chief engineer, J. A. Campbell.

WATER SUPPLY—Source, Chemung river, Cats creek and wells; system, gravity, pumping to reservoir and direct; cap 117,000,000 gals; pumping engines, dy cap 8,000,000 gals; 308 hydrants; pipe 41 miles, 30 to 4 in dia; 327 valves; 2,875 taps; pressure domestic 44 pounds, fire same; Edson recording gauge; waterworks owned by company; cost to construct \$647,000, to date \$678,312; ann expenses \$19,000. Supt, J. M. Diven.

Fairport, Monroe Co., population 3,000; fire area 900 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,100 ft, rubber good 800 ft; value of fire department equipment \$7,000; total ann expenses of department \$1,000; total membership 135, all volunteers; steam whistle alarm. Chief engineer, I. K. Quackenbush.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 300,000 gals; pumping engines, dy cap 1,000,000 gals; 68 hydrants; pipe 7½ miles, 4 to 10 in dia; 50 valves; pressure, domestic 50 to 80 pounds; waterworks owned by city; cost to construct \$48,000; ann expenses \$2,500. Chairman of com, C. L. Peacock; supt, Robert Ewing.

Farmer, Seneca Co., population 680; fire area 320 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage, good supply of ladders; hose, linen good 500 ft, leather good 100 ft; value of fire department equipment \$500; value of buildings occupied \$500; total ann expenses of department \$200; total membership 40, volunteers; bell alarm; 2 fire companies, 1 engine company, 1 hose company. Chief engineer, S. A. Drake.

WATER SUPPLY—Source, two artificial ponds fed by springs and 3 reservoirs of 15,000 gals, ponds 200 ft sq. Town clerk, Geo. A. Mosher.

Far Rockaway, Queens Co., population 3,000; fire area 1 sq mile; buildings, wood, 2 and 3 stories. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 2,000 ft, rubber good 450 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses \$5,000; membership 85, volunteers; bell alarm, McShane; 2 hose companies, 1 hook and ladder company. Chief engineer, J. A. Walsh.

WATER SUPPLY—Source, 100 driven wells; system, pumping to standpipe, 1 of 235,000 gals and another of 70,000 gals; pumping engines, dy cap 2,000,000 gals; 188 hydrants; pipe 22 miles, 4 to 14 in dia; 122 valves; pressure 43 pounds; Edson pressure recording gauge; waterworks owned by company. Supt, Thos. D. Smith.*

Fayetteville, Onondaga Co., population 1,500; fire area 400 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft; value of fire department apparatus \$1,800; value of buildings occupied \$400; ann expenses \$150; total membership 15, all volunteers; bell alarm. Chief engineer, Hiram C. Agar.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,800,000 gals; hydrants 42; pipe 6 miles, 10 to 4 in dia; 90 taps; pressure 100 pounds; works owned by city; cost to construct \$31,000; Supt, D. P. Babcock.

Fishkill-on-Hudson, Dutchess Co., population 4,000; fire area 1 sq mile; mercantile buildings, brick, 3 stories; private, wood, 3 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—10 hand engines, 1 hose carriage; hose,

cotton good 1,000 ft, rubber good 200 ft, inferior 200 ft, leather good 200 ft; value of fire department equipment \$1,800; value of buildings occupied \$10,000; total ann expenses of department \$200; total membership 50; bell alarm. Foreman, Chas. W. Anderson.*

WATER SUPPLY—Source, mountain streams; system, gravity; 3 reservoirs, cap 1,700,000 gals; 78 hydrants; pipe 11 miles, 4 to 12 in dia; 40 valves; 30 meters; pressure 80 to 150 pounds; works owned by company. Pres of com, G. E. Talout; Supt, Edmund H. Sheaff.

Flatbush, Kings Co., population est 14,000; (includes Windsor Terrace); fire area 2x3 miles; buildings, brick and wood, 2 to 4 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 3 hook and ladder trucks, 5 hose carriages, 1 hose wagon; hose, rubber good 2,800 ft, cotton good 400 ft; 1 horse, value \$200; value of equipment \$24,000; value of buildings occupied \$22,000; expenses \$8,000; membership 280, volunteers; Gamewell alarm; 21 street boxes. Chief engineer, Wm. H. Swartwout.

WATER SUPPLY—Source, wells; system, pumping to standpipe; cap 240,000 gals; pumps, dy cap 3,000,000 gals; 168 hydrants; pipe 42 miles, 4 to 20 in dia; pressure 75 pounds; capital stock \$200,000. Supt, Jeremiah Lott.*

Flushing, Queens Co., population 10,000; mercantile buildings, brick and wood, 3 and 4 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, (1 in reserve); hose, cotton good 2,500 ft, leather good 1,500 ft; expenses for past year \$2,100; membership 210, volunteers; Gamewell alarm; 17 street boxes. Chief engineer, Jas. H. McCormick.

WATER SUPPLY—Source, wells; system, direct pumping; pumps, dy cap 3,000,000 gals; 130 hydrants; pipe 34 miles, 4 to 12 in dia; 900 taps; pressure, domestic 40, fire 100 pounds; cost to construct \$200,000; ann expenses \$12,000. Supt, G. A. Roullier.*

Fonda, Montgomery Co., population 1,190; area 640 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; tin roofs. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, linen good 800 ft, inferior 200 ft; value of buildings occupied \$2,000; total membership 75, all volunteers. Chief engineer, C. B. Clute.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 2,000,000 gals; 31 hydrants; pipe 33-4 miles, 4 to 12 in dia; valves 20; 100 taps; pressure 47 pounds; cost to construct \$28,000; ann expenses \$400. Pres, James Cole; supt, Henry Silver.

Fort Covington, Franklin Co., population 1,000; fire area 1 sq mile; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage, pails, ladders, axes, etc; hose, cotton good 850 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 40, all volunteers; bell alarm. Foreman, James Dempsey.

WATER SUPPLY—Source, rivers and wells; system, pumping direct; hydrants 2; pipe 275 ft, 3 in dia.

Fort Edward, Washington Co., population 3,500; fire area 800 acres; mercantile buildings, brick and wood, 1½ to 4 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton poor 2,450 ft, rubber good 4,000 ft, poor 750 ft; 2 horses, value \$450; value of fire department equipment \$5,000; value of buildings occupied \$1,500; ann expenses \$850; total membership 75, volunteers; bell alarm.

WATER SUPPLY—Source, springs, 2 miles from town; system, gravity; reservoir cap 15,000,000 gals; hydrants 85; pipe 12 miles, 20 in dia; pressure, domestic 62, fire 62 pounds; waterworks owned by city; cost to construct \$110,000. Chairman of com, C. W. Bowtell.

Fort Plain, Montgomery Co., population 2,864; buildings, wood and brick, 2 and 3 stories; wooden roofs permitted. Fire department—2 hand engines, 1 chemical extinguisher, 1 hook

and ladder truck, 5 hose carriages; hose, cotton good 2,000 ft, linen good 200 ft; value of fire department equipment \$4,500; value of buildings occupied \$2,500; total ann. expenses of department \$500; total membership 150, all volunteers; bell alarm. Chief, elected by company and approved by trustees, J. Winnings.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 15,000,000 gals; 52 hydrants; pipe 12 miles, 4 to 16 in dia; 37 valves; 1 meter; 222 taps; pressure 80 pounds; cost to construct \$85,000; ann. expenses \$4,000. Supt, Chas. Hennebergh.

Frankfort, Herkimer Co., population 2,291; fire area 1,000 acres; mercantile buildings, wood, 2 to 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,700 ft; value of fire department equipment \$7,000; total ann. expenses of department \$500; total membership 80, all volunteers; bell and whistle alarm. Chief, Thos. Honohan.

WATER SUPPLY—Source, springs; town has voted to put in waterworks. Thos. Honohan, Water Commissioner.

Franklin, Delaware Co., population 1,000; fire area 1 sq mile; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 850 ft, rubber good 650 ft, inferior 360 ft; value of equipment \$3,000; value of buildings occupied \$2,000; ann. expenses \$355; total membership 63, all volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, L. F. Raymond.

WATER SUPPLY—Source, artesian well; system, pump to reservoir, cap 225,000 gals; pumping engines, dy cap 35,000 gals; hydrants 20; pipe 2 miles, 6 in dia; valves 18; 73 taps; pressure 95 pounds; works owned by city; cost to construct \$19,000; ann. expenses \$700. Supt, S. W. Potter.

Franklinville, Cattaraugus Co., population 1,300; fire area 1 sq mile; mercantile buildings, brick and wood, 2 and 3 stories. Fire department—1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 350 ft, cotton good 1,000 ft, 600 ft good canvas; value of fire department equipment \$800; value of buildings occupied \$1,600; total ann. expenses of department \$50; 106 volunteer members; bell alarm. Chief, appointed by village trustees, M. J. Waring.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoir 750,000 gals; hydrants 34; pipe 11 miles; 25 valves; pressure 78 pounds; cost to construct \$33,000. Chairman, F. Searle; secy, W. H. Ferris.

Fredonia, Chautauque Co., population 3,399; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; slamese couplings used; hose, cotton good 2,400 ft, rubber good 300 ft; value of fire department equipment \$3,500; 1 building occupied, owned by village, \$30,000; 85 volunteer members; whistle and bell alarm. Chief, elected by trustees, R. K. Palmer.

WATER SUPPLY—Source, creek; system, gravity; reservoir cap 10,000,000 gals; 56 hydrants; pipe 9 miles; 20 valves; 650 taps; 9 meters; pressure 105 pounds; cost to construct \$90,000; ann. expenses \$445. Supt, K. F. Hayward.

Freeport, Queens Co., population estimated 1,000; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck; value of equipment \$600; value of buildings occupied \$700; ann. expenses; 30 volunteer members; bell alarm. Foreman, James R. Smith.

WATER SUPPLY—Source, sunken wells; system, pumping to standpipe; standpipe cap 20 x 125 ft; pumping engines, dy cap 500,000 gals; 71 hydrants; pipe 5 1-3 miles, 12 to 4 in dia; waterworks owned by city; cost to construct about \$40,000. Chairman of com, Wm. G. Miller. (The above system well be completed July 14, 1894.)

Fulton, Oswego Co., population 5,000; mercantile buildings; brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—2 steam fire engines, 1 chemical

extinguisher, 1 hook and ladder truck, 6 hose carriages; hose, cotton good 2,800 ft, inferior, 1,500 ft; value of equipment \$10,000; value of buildings occupied \$4,500; total ann. expenses of department \$1,200; total membership 100, paid 4. Chief engineer, M. F. Craban.

WATER SUPPLY—Source, springs; system, pumping to standpipe and direct into mains; standpipe cap 188,000 gals; pumps, dy cap 1,500,000 gals; 87 hydrants; pipe 11 miles; 600 taps; pressure, domestic 60, fire 120 pounds; works owned by company. Supt, R. E. Phillips.

Fultonville, Montgomery Co., population 1,122; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hose carriages, equipment for truck; hose, cotton good 750 ft; value of buildings occupied \$1,800; total membership 40, all volunteers; bell alarm; 1 engine company. Foreman, S. Fletcher.

WATER SUPPLY—Source, springs, canal, river; system, gravity; 3 reservoir; 8 hydrants; pipe 2 miles, 4 to 6 in dia. Supt, Robert Craig.

Garden City, Queens Co., population 900; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells; system, pumping direct; 35 hydrants; pipe 11 miles; quality of water good, filtration; works owned by the Garden City Co. Supt, A. H. Cunliffe.

Geddes, Onondaga Co. (See Syracuse.)

Geneseo, Livingston Co., population 3,000; fire area 800 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks, ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, protective cart; hose, linen good 3,500 ft; value of fire department equipment \$6,000; value of buildings occupied \$3,000; total membership 150, all volunteers; bell alarm; 4 fire companies. Chief engineer, Arthur H. Rogers.

WATER SUPPLY—Source, Conesus lake; system, pumping to reservoir cap 1,500,000 gals; pump, dy cap 600,000 gals; 83 hydrants; pipe 12 miles, 10, 8, 6 and 4 in dia; 273 taps; 81 valves; pressure 40 to 170 pounds; works owned by village; cost to construct \$75,000, to date \$80,000; ann. expenses \$2,621. Supt, Geo. R. Meeker.

Geneva, Ontario Co., population 7,577; fire area 100 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 6 hose carriages; hose, cotton good 3,000 ft, rubber good 500 ft, linen good 1,000 ft; 4 horses; value of fire department equipment \$15,000; value of buildings occupied \$10,000; total ann. expenses of department \$2,000; total membership 160, paid part time 10, volunteers 150; bell alarm. Chief appointed by trustees, John Denison.

WATER SUPPLY—Source, Seneca lake and springs; system, gravity and pumping; pump, dy cap 1,500,000 gals; 128 hydrants; pipe 18 miles, 12 to 4 in dia; 158 valves; 600 taps; pressure, domestic 45 to 100, fire 75 to 100 pounds; works owned by company; cost to construct \$150,000. Supt, Saml S. Graves.

Gilbertsville, Otsego Co., population 600; fire area 2 square miles; mercantile buildings, wood, 1½ and 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 1 hose carriage, 1 extension ladder; hose, cotton good 400 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,500; total ann. expenses of department \$25; total membership 32, all volunteers; bell alarm. Foreman, R. B. Myrick.

WATER SUPPLY—Source, wells, cisterns and brooks. Town clerk, A. L. Camp.

Glens Falls, Warren Co., population 12,000; fire area 100 acres; buildings, brick, 80 per cent, brick in business section, stone and wood, 1½ to 4 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, also new Babcock aerial truck, 65 ft extension; 5 hose carriages, 1 extension ladder, slamese couplings used; hose cotton good 3,750 ft, inferior 750 ft; value of fire depart-

ment equipment \$12,000; value of 2 buildings occupied \$15,000; total ann expenses of department \$2,000; total membership 185; volunteers, paid part time 15; bell alarm; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, Dennis Cunningham.

WATER SUPPLY—Source, springs; system, gravity; 3 impounding reservoirs, cap 96,000,000 gals; 150 hydrants; pipe about 50 miles; pressure, domestic 60, fire 100 pounds; waterworks owned by village; cost to construct \$175,000; ann expenses \$700. Acting com, E. B. Potter.

Glen Cove, Queens Co., population 2,500; fire area 1,000 acres; mercantile buildings, brick and wood, 2 to 5 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, canvas good 600 ft, leather good 250 ft, inferior 200 ft; value of fire department equipment \$2,500; total membership 45, all volunteers; bell alarm. Chief engineer, E. P. Titus.

WATER SUPPLY—Source, lake, cisterns and springs.*

Gloverville, Fulton Co., population 15,000; fire area 250 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, 1 hose wagon, slamese couplings used; hose, linen good 3,000 ft, inferior 500 ft; value of fire department equipment \$6,000; value of buildings occupied, including city hall \$20,000; total ann expenses of department \$1,500; total membership 120, volunteers; Gamewell alarm; 22 street boxes; 4 fire companies. Chief engineer, George L. Fort.

WATER SUPPLY—Source, springs; system, gravity; 5 reservoirs, cap 18,000,000 gals; 160 hydrants; pipe 30 miles, 4 to 18 in dia; 175 valves; pressure 80 pounds; waterworks owned by city; 2,263 taps; cost to construct \$240,764; cost to date \$258,380; ann expenses \$15,000. Supt, J. E. Tuckerman.

Goshen, Orange Co., population 3,000; buildings, wood and brick, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, fabric 3,000 ft, leather 1,000 ft; value of buildings occupied \$8,000; total ann expenses \$400; total membership 100, volunteers; bell alarm. Chief engineer, C. G. Elliott.

WATER SUPPLY—Source, springs; system, gravity; reservoir, cap 46,000,000 gals; 74 hydrants; pipe 7 1/4 miles, 4 to 12 in dia; 12 valves; pressure 54 pounds; waterworks owned by village; cost to construct \$40,000; ann expenses \$2,000. Pres, R. B. Hock; supt, Chas. Tuthill.

Gouverneur, St. Lawrence Co., population estimated 4,000; fire area 600 acres; mercantile buildings, stone and brick, 2 to 4 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 2 hose sleighs; hose, cotton good 3,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,500; total membership 50; bell and steam gong alarm. Chief, Cyrenus Vail.

WATER SUPPLY—Source, Oswegatchie river; system, pump to standpipe and direct; standpipe cap 212,000 gals; pumping engines, dy cap 2,000,000 gals; 65 hydrants; pipe 8 1/2 miles, 4 and 12 in dia; 42 valves; quality of water soft; pressure, domestic 85, fire 85 pounds; waterworks owned by village; cost to construct \$60,000; ann expenses \$4,000. Supt, A. L. Althouse.*

Gowanda, Cattaraugus Co., population 2,000; fire area 640 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; gravel, iron and shingle roofs; fireworks ordinance. Fire department—1 steam fire engine, 1 supply wagon; hose, cotton good 2,000 ft, linen good 450 ft, inferior 50 ft; value of fire department equipment \$3,500; value of buildings occupied \$500; total ann expenses of department and electric alarm; 11 street boxes; 27 call bells; 2 engine companies, 1 hook and ladder company, 4 hose companies. Chief engineer, Peter Brueck.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 3,000,000 gals; 17 hydrants; pipe 3 miles, 4 to 10 in dia; pressure 80 pounds; waterworks owned by company; cost to construct \$20,-

000, to date \$23,000; ann expenses \$200. Supt, F. J. Blackman.

Granville, Washington Co., population 2,500 fire area 1,000 acres; mercantile buildings, wood and brick, 4 stories; private, wood, 2 stories; wooden roofs not often permitted; fireworks ordinance. Fire department—3 hose carriages; hose, cotton good 700 ft, linen good 1,300 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; total membership 38, volunteers; bell alarm; 2 hose companies. Chief engineer, George W. Henry.

WATER SUPPLY—Source, Mettawee river; system, pumping to reservoir and direct; pumping engines, dy cap 500,000 gals; 30 hydrants; pipe 4 miles, 4 to 8 in dia; pressure, domestic 80, fire 100 pounds; waterworks owned by village; cost to construct \$20,000; ann expenses \$1,000. Supt, John W. Edwards.

Grassy Point, Rockland Co., population estimated 1,000; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance.*

WATER SUPPLY—Source, supplied from Haverstraw; 10 hydrants.*

Gravesend, Kings Co., population 7,000; fire area not stated; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department (including whole township)—3 steam fire engines, 2 hand engines, 6 chemical extinguishers, 3 hook and ladder trucks, 4 hose carriages, all kinds, 3 hose jumpers, 1 ship pump, 36 ft suction hose and 250 ft 2 in hose; total membership 450, volunteers; Gamewell alarm; 80 street boxes; 11 fire companies. Chief engineer, R. J. Sutherland.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; cap of standpipe 411,000 gals; dy cap 6,000,000 gals; pipe 36 miles; pressure 60 to 80 pounds; cost \$350,000.*

Greenbush, Rensselaer Co., population 8,000; fire area 1 sq mile; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 4 hose carriages, 1 hook and ladder truck; hose, linen good 3,500 ft; value of fire department equipment \$25,000; value of 2 buildings occupied \$15,000; total membership 350, volunteers; whistle and bell alarm. Chief engineer, S. Lodwick.*

WATER SUPPLY—Source, well and Hudson river; system, pumping to standpipe and direct; 2 pumping engines, dy cap 4,000,000 gals; 137 hydrants; pipe 9 miles, 6 to 20 in dia; pressure, domestic 80 to 100, fire 140 pounds; pressure recording gauge; waterworks owned by company; cost to construct \$200,000. Supt, John Winn.

Greene, Chenango Co., population 1,067; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, slamese couplings used; hose, linen good 500 ft, leather good 1,600 ft, inferior 200 ft; value of fire department equipment \$3,000; total ann expenses of department \$100; total membership 100, volunteers; bell alarm. Chief engineer, J. S. Noser.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 50,000 gals; pipe 5 miles; pressure 40 pounds; works owned by company; cost to construct \$7,000; ann expenses \$200. Pres, J. D. Van Valkenburg, Jr.; supt, R. A. Race.

Green Island, Albany Co., population 4,463; fire area 2 sq miles; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 3 hose carriages, 1 hose wagon; hose, cotton good 2,700 ft, inferior 600 ft; equipment \$9,000; value of fire department \$1,500; total ann expenses of department \$1,300; 69; church and electric bells; 2 hose companies. Chief engineer, Dominick E. Tighe.*

WATER SUPPLY—Source, filter gallery on island in Hudson river; system, pumping to reservoir and standpipe; pumping engines, dy cap 5,000,000 gals; 58 hydrants; pipe 4 miles, 4 to 12 in dia; 323 taps; pressure 80 pounds; waterworks owned by company. Supt, C. M. Stover.

Greenport, Suffolk Co., population 2,500; fire area 640 acres; buildings, wood, 25 to 30 ft; wood.

on roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$3,000; total ann expenses of department \$1,500; total membership 180, volunteers; bell alarm; 3 engine companies, 1 hook and ladder company, 3 hose companies. Chief engineer, James Allen.

WATER SUPPLY—Source, wells; pumping to standpipe, cap 238,000 gals; dy cap of wells 1,000,000 gals; pumping engines; hydrants 12; pipe 4 miles, 10 to 4 in dia; pressure 48 to 80 pounds; cost to construct \$100,000. Supt. E. J. Jennings.*

Greenwich, Washington Co., population 1,668; buildings, brick and frame, 2 stories. Fire department—2 hand engines, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages; hose, rubber fair 3,000 ft; value of equipment \$3,500; total membership 140, volunteers. Chief engineer, Wm. H. Crandall.*

WATER SUPPLY—Source, springs; system, gravity and pumping to reservoir; reservoir cap 6,500,000 gals; pumping engines, dy cap 350,000 gals; hydrants 33; pipe 8 miles, 8 to 4 in dia; 18 valves; pressure, domestic 50 to 60, fire 95 to 125 pounds; waterworks owned by company; cost to construct to date \$40,000; ann expenses \$1,500. Supt. Henry C. Gray.

Groton, Tompkins Co., population 1,280; fire area 550 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,800 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; total ann expenses of department \$300; total membership 100, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Andrew D. Campbell.

WATER SUPPLY—Source, springs; system, gravity; 1 reservoir, cap 500,000 gals; 45 hydrants, pipe 6½ miles, 4 to 10 in dia; 15 valves; pressure, domestic 80 to 95 pounds; cost to construct \$23,000. Supt. Wm. D. Baldwin.*

Hamburg, Erie Co., population 1,500; fire area 650 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 300 ft, rubber good 1,500 ft; value of fire department equipment \$2,500; value of buildings occupied \$5,000; total ann expenses of department \$170; total membership 50, volunteers; bell alarm. Chief engineer, Chas. H. Wood.*

WATER SUPPLY—Source, well; pumping to standpipe, cap 180,000 gals; pumping engines, dy cap 57,600 barrels; hydrants 28; pipe 5½ miles, 5 to 12 in dia; quality of water excellent; pressure 80 to 100 pounds; cost to construct \$40,000. Supt. Jacob Pfeffer.*

Hamilton, Madison Co., population 1,774; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 500 ft, inferior 800 ft, rubber good 1,175 ft, leather good 200 ft, inferior 50 ft; value of fire department equipment \$6,000; value of buildings occupied \$7,000; total ann expenses of department \$176; total membership 70, volunteers, paid full time 2; bell alarm; 2 fire companies. Chief engineer, T. H. Beal.

WATER SUPPLY—Source, 3 inexhaustable streams. Mayor, E. P. Simon.

Hammondsport, Steuben Co., population 1,200; fire area 200 acres, buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 horse power fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,200 ft, inferior 300 ft; total membership 100, volunteers; bell alarm. Chief engineer, Geo. H. Keeler.

WATER SUPPLY—Source, lake, creek and 5 large cisterns.*

Hancock, Delaware Co., population 1,200; fire area 500 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose

carriages; hose, cotton good 1,050 ft, inferior 200 ft; value of equipment \$2,000; total membership 105, volunteers; 2 hose companies, 1 hook and ladder company; Gamewell fire alarm. Chief engineer, S. F. Wheeler.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoirs 5,500,000 gals; pipe 4 miles, 4 to 8 in dia; 25 hydrants; 10 valves; 80 taps; pressure 60 to 85 pounds; works owned by company; cost to construct \$21,000, to date \$32,000. Supt. S. N. Wheeler.

Hastings, Westchester Co., population 1,700; fire area 1 mile; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; shingle roofs used; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, linen good 1,200 ft; value of fire department equipment \$1,400; value of buildings occupied \$8,500; total ann expenses of department \$1,000; total membership 43, volunteers; bell alarm; 2 hose companies. Foreman, W. W. Tompkins.

WATER SUPPLY—Source, Pocantico lake; system gravity (See North Tarrytown).*

Havama, Schuler Co., population 1,700; fire area 500 acres; mercantile buildings, brick with tin roofs, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; ann expenses \$1,800; total membership 80, volunteers. Chief engineer, F. L. Van Vleet.

WATER SUPPLY—Source, driven wells and creeks.*

Haverstraw, Rockland Co., population about 6,000; fire area 1½ sq miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 8 hose carriages; hose, rubber good 1,000 ft, leather good 100 ft, linen good 1,000 ft, rubber good 1,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$12,000; total ann expenses of department \$500; total membership 125, volunteers; bell alarm. Chief engineer, Geo. Mardorf.

WATER SUPPLY—Source, springs; system, gravity; pumping engines, dy cap 1,500,000 gals; 58 hydrants, pipe 11 miles, 4 to 12 in dia; pressure 90 to 110 pounds; waterworks owned by company. Supt. D. D. Williams.*

Hempstead, Queens Co., population 4,381. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 1,400 ft; total membership 200, volunteers; bell alarm. Chief engineer, William Stoffel, Jr.*

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 258,000 gals; pumping engines, dy cap 750,000 gals; pipe 5 miles, 10 to 4 in dia; cost to construct \$100,000; works owned by company. Supt. W. Christopher.*

Herkimer, Herkimer Co., population 6,000; fire area 2 sq miles; mercantile buildings, stone, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 15 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,500 ft, rubber good 200 ft, leather good 200 ft, inferior 200 ft; value of fire department equipment \$3,500; value of buildings occupied \$20,000; total ann expenses of department \$2,000; total membership 150, volunteers; bell alarm and boxes. Chief engineer, H. P. Witherstine.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe and direct; standpipe cap 563,000 gals; pumping engines, dy cap 500,000 gals; 66 hydrants; pipe 8 miles, 4 to 6 in dia; 52 valves; pressure, domestic 87, fire 100 pounds; waterworks owned by city; cost to construct \$57,000; ann expenses \$1,500. Supt and secy, Chas. S. Spinner.*

Herrmann, St. Lawrence Co., population 500; fire area 150 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 600 ft, rubber good 200 ft, inferior 100 ft; value of fire depart-

ment equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$50; 21 volunteer members; bell alarm. Chief, W. E. Beawick.

WATER SUPPLY—Source, spring, brook; system, pumping to standpipe, cap 50,000 gals; pumping engines, dy cap 75,000 gals; 9 hydrants; pipe 1½ miles, 6-4 and 3 in dia; 6 valves; pressure 45 to 60 pounds; works owned by village; cost to construct \$7,500; ann expenses \$75. Supt, C. A. Northrop.*

Hicksville, Queens Co., population est 2,700; fire area 4,000 acres; mercantile buildings, wood, 1½ to 3 stories; private, wood, 1½ to 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 6 force pumps; hose, cotton good 250 ft, inferior 350 ft, rubber good 150 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total membership 100, volunteers; bell alarm. Chief engineer, Arnold G. Heitz.

WATER SUPPLY—Source, wells and cisterns.

Highland Falls, Orange Co., population 2,237; fire area 2 sq miles; buildings, wood, 3 stories; private, wood, 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$700; value of buildings occupied \$400; total ann expenses of department \$200; total membership 40, volunteers; bell alarm. Chief engineer, L. F. Goodsell.*

WATER SUPPLY—Source, Buttermilk Falls brook, 1 mile south of West Point; system, gravity; reservoir cap 100,000,000; 19 hydrants; pipe 8 in dia; pressure, 250 pounds; works owned by company. Pres, Caleb Huse.*

Hobart, Delaware Co., population 575; fire area 287 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 25 chemical extinguishers, 2 hose carriages; hose, cotton good 700 ft, rubber inferior 100 ft, leather inferior 100 ft; value of equipment \$1,000; value of buildings occupied \$2,000; total membership 60, volunteer. Chief engineer, H. M. Cowan.

WATER SUPPLY—Source, Spring brook; system, gravity; reservoir cap 4,000,000 gals; 12 hydrants; pipe ¾ miles, 6 to 4 in dia; 40 taps; pressure, fire 80 pounds; waterworks owned by company; cost to construct to date \$12,000. Supt, S. A. Hanford.

Holley, Orleans Co., population 1,400; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; total membership 100, volunteers. Chief, E. C. Crego.

WATER SUPPLY—Source, steams and springs; system, pumping to standpipe cap 125,500; 30 hydrants, pipe 4 to 8 in dia; 82 meters; pressure 75 pounds; cost to construct \$50,000. Pres, Chas. M. Harrington; supt, J. E. Shattuck.*

Homert, Cortland Co., population est 4,000; fire area 1½ miles sq; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, and 3 private; alamese couplings; hose, cotton good 2,000 ft, inferior 350 ft, leather good 500 ft, poor 200 ft; linen good 600 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,500; total ann expenses of department \$500; total membership 125; bell alarm. Chief engineer, Thos. Knobel.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 150,000; pumping engines, dy cap 1,000,000 gals; 48 hydrants; 147 taps; pipe 6¼ miles, 4 to 8 in dia; 30 valves; pressure 90 to 120 pounds; waterworks owned by company; cost to construct \$50,000. Supt, H. H. Nixon.

Honeoye Falls, Monroe Co., population 1,128; fire area 1,500 acres; buildings, brick and wood, 2 stories; tin roofs used; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft; value of equipment \$5,000; value of buildings occupied \$8,000; ann expenses \$250; total membership 100, volunteers; 4 fire companies, 1 steam engine com-

pany, 1 hook and ladder company, 2 hose companies; electric alarm. Chief engineer, E. A. Bronson.

WATER SUPPLY—Source, wells; system, pumping to tank; tank cap 10,000 gals; pumping engines, dy cap 48,000 gals; pipe 1 mile, 4 and 2 in dia; waterworks owned by company; cost to construct \$3,300. Sec'y and treas, J. D. Martin.

Hoosick Falls, Rensselaer Co., population 7,014; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1½-2 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 3,300 ft; value of fire department equipment \$8,190; value of buildings occupied \$12,500; total ann expenses of department \$1,240; total membership 110, paid full time 1; bell alarm. Chief engineer, W. H. Parsons Jr.

WATER SUPPLY—Source, wells; system, pumping to standpipe; cap 335,000 gals; pumping engines, dy cap 1,000,000 gals; 86 hydrants; pipe 8 miles, 4 to 12 in dia; 53 valves; 850 taps; pressure, 60 to 100 pounds; waterworks owned by company. Pres, Geo. H. Norman; supt, E. R. Estabrook.

Hornellsville, Steuben Co., population 10,998. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 1 protective company; hose, good 4,000 ft; total membership 282, volunteers; electric alarm; 14 street boxes. Chief engineer, T. C. McCarthy.*

WATER SUPPLY—Source, mountain streams; system, gravity; impounding reservoir, cap 50,000,000 gals; 132 hydrants; pipe 19 miles, 4 to 16 in dia; 108 valves; 1 meter; pressure, domestic 85, fire 95 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct \$200,000. Supt, S. H. Crane.*

Horseheads, Chemung Co., population 2,500; fire area 20 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 chemical engine, 2 hose carriages, 1 hose wagon, alamese couplings; hose, cotton good 1,500 ft, inferior 300 ft, leather good 300 ft; value of fire department equipment \$7,000; value of buildings occupied \$8,000; total ann expenses of department \$425; total membership 100, paid 3; bell alarm. Chief engineer, E. R. Alfred.

WATER SUPPLY—Source, springs and canal; 2 reservoirs.*

Hudson, Columbia Co., population 10,000; fire area 1,000 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 aerial truck, 7 hose carriages; hose, cotton good 2,500 ft, fair 1,500 ft; value of fire department equipment \$8,600; value of buildings occupied \$30,000; total ann expenses of department \$1,200; total membership 256, volunteers; Gamewell electric bell; 16 street boxes. Chief engineer, Robt Elting.

WATER SUPPLY—Source, Hudson river; system, pumping to reservoir; reservoir cap 5,000,000 gals; pumping engines, dy cap 1,500,000 gals; 186 hydrants; pipe 15 miles, 18 to 3 in dia; 131 valves; 1,400 taps; pressure 40 to 120 pounds; waterworks owned by city; cost to construct to date \$300,000; ann expenses \$12,000. Supt, C. Wurster.

Huntington, Suffolk Co., population 3,028; fire area 640 acres; mercantile buildings, wood and brick, 2½ stories; private, wood, 2½ stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 1,000 ft, rubber good 300 ft; 2 horses; value of fire department equipment \$2,100; value of buildings occupied \$1,100; total ann expenses of department \$500; total membership 75, all volunteers; bell alarm. Chief engineer, Frits H. Galon.

WATER SUPPLY—Source, driven wells; system, pumping to reservoir; reservoir cap 250,000 gals; pumping engines, dy cap 500,000 gals; 86 hydrants; pipe 4½ miles, 4, 6 and 8 in dia; 20 valves; pressure 30 to 55 pounds; waterworks owned by company; cost to construct \$40,000. Pres, E. D. Davidson.

Hyde Park, Dutchess Co., population 2,875; fire area 800 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 2 chem-

ical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, new 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$500; total ann expenses of department \$1,100; total membership 95, volunteers; bell alarm. Chief engineer, Wm. G. Foster.

WATER SUPPLY—Source, pond; cap of cisterns 100,500 gals.

Ilion, Herkimer Co., population 4,100; fire area 1½ x 2 miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted only in suburbs; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 2,500 ft, inferior 500 ft; value of fire department equipment \$10,500; value of buildings occupied \$15,000; total ann expenses of department \$1,200; total membership 150; steam, whistle and bell alarm. Chief engineer, Philip Ferrel.

WATER SUPPLY—Source, Fax Falls creek; system, gravity; reservoir cap 15,000,000 gals; 110 hydrants; pipe 13 miles, 4 to 16 in dia; 150 valves; 250 taps; pressure, domestic 50 to 80, fire 110 to 125 pounds; waterworks owned by village; original cost to construct \$95,000. Chairman of com, Thomas Ringwood.

Inwood, Queens Co., population 1,800; fire area 2 sq miles; mercantile buildings, wood, pine, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$1,200; value of buildings occupied \$1,000; total ann expenses of department \$118.25; total membership 40, volunteers; bell alarm.*

WATER SUPPLY—Source, spring and wells.*

Irrington, Westchester Co., population 2,500; buildings, wood, 2½ stories; wooden roofs permitted. Fire department—2 hose carriages; hose, cotton good 1,300 ft, inferior 300 ft; value of fire department equipment \$3,500; total ann expenses of department \$217; total membership 40, volunteers; bell alarm. Chief engineer, Richard Duff.

WATER SUPPLY—Source, artesian wells and stream; system, pumping to reservoir; reservoir cap 9,000,000 gals; pumping engines, dy cap 200,000 gals; 27 hydrants; pipe 8 to 4 in dia; 20 valves 180 taps; pressure 140 to 186 pounds; waterworks owned by city; cost to construct \$45,000; ann expenses \$1,500. Supt, W. W. Winne.

Islip, Suffolk Co., population 8,453; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 500 ft, cotton good 500 ft, linen (unlined) good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,200; ann expenses \$1,500; total membership 80; bell alarm. Chief engineer, S. Wright.

WATER SUPPLY—Source, wells; system, pump to standpipe, cap 352,000 gals; pumping engines, dy cap 1,500,000 gals; pipe 25 miles; 200 hydrants; cost to construct \$300,000. Supervisor, Wm. H. Young; town clerk, J. Houser.*

Ithaca, Tompkins Co., population 15,000; fire area 320 acres; mercantile buildings, brick, 3 and 4 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—3 steam fire engines (1 in reserve), 2 chemical extinguishers, 1 hook and ladder truck, 9 hose carriages (3 are extra), 1 supply wagon; hose, cotton good 4,000 ft; 6 horses; value of fire department equipment \$18,000; value of buildings occupied \$40,000; total ann expenses of department \$3,800; total membership 440, volunteers, paid part time 3; Gamewell alarm; 16 street boxes. Chief engineer, Frank Cole.

WATER SUPPLY—Source, Buttermilk Falls creek; system, gravity and pumping to reservoir; 4 reservoirs, cap 14,000,000 gals; pumping engines, dy cap 1,000,000 gals; 100 hydrants; pipe 20 miles, 4 to 20 in dia; 249 valves; pressure 65 to 110 pounds; waterworks owned by company; cost to construct \$243,000. Supt, E. M. Treman.

Jamaica, Queens Co., population 8,300; fire area 3,200 acres; mercantile buildings, wood and brick, 3 stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 chemical extin-

guishers, 1 hook and ladder truck, 5 hose carriages, 1 bucket carriage; hose, rubber good 2,000 ft, linen good 600 ft; value of fire department equipment \$8,000; value of buildings occupied \$10,000; total membership 176; Gamewell alarm; 8 street boxes. Chief engineer, W. Augustus Shipley.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 600,000 gals; pumping engines, dy cap 1,000,000 gals; 185 hydrants; pipe 14 miles, 4 to 12 in dia; 70 valves; 4 meters; pressure, domestic 60, fire 100 pounds; waterworks owned by company; cost to construct \$175,000, to date \$190,000. Supt, J. T. Watts.*

Jamestown, Chautauque Co., population 16,038; fire area 10 acres; buildings, wood and brick, 5 stories; wooden roofs permitted. Fire department—3 hook and ladder trucks, 5 hose carriages, 6 supply wagons, 1 fire patrol wagon; hose, cotton good 10,000, inferior 500 ft, rubber inferior 500 ft; 10 horses, not owned by city; value of fire department equipment \$20,000; value of buildings occupied \$28,000; total membership 250, volunteers; Gamewell alarm; fire police; Coffee brigade; 2 engine companies, 1 hook and ladder company, 6 hose companies. Chief engineer, T. T. Cluoney.*

WATER SUPPLY—Source, artesian wells; system, direct pumping; pumping engines, dy cap 8,500,000 gals; 145 hydrants; pipe 24 miles; 160 valves; pressure 40 to 125 pounds; waterworks owned by company; cost to construct \$200,000; ann expenses \$6,000. Supt, D. W. Immeil.

Johnstown, Fulton Co., population 10,000; fire area 10 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted on new buildings in fire limits. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 3,000 ft; 3 horses, value \$250 each; value of fire department equipment \$4,500; value of buildings occupied \$8,500; total membership 125, 2 paid full time; Gamewell alarm; 14 street boxes. Chief engineer, David Smith.

WATER SUPPLY—Source, springs and streams; system, gravity; reservoirs cap 14,000,000 gals; 112 hydrants; pipe 21 miles, 4 to 10 in dia; 170 valves; 1,444 taps; pressure, domestic 110, fire 100 pounds; waterworks owned by city; cost to construct \$60,000, cost to date \$140,000; ann expenses \$3,000. Supt, J. J. Buchanan.

Jordan, Onondaga Co., population 1,300; fire area 600 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 3 hose carriages; alamese couplings used; hose, cotton good 950 ft, rubber good 300 ft, linen good 250 ft; value of fire department equipment \$4,000; value of 2 buildings occupied \$1,800; total ann expenses of department \$250; total membership 240, volunteers; bell alarm. Chief engineer, K. H. Bond.

WATER SUPPLY—Source, springs; system, gravity, pumping to reservoir; cap 1,000,000 gals; water-power pump, dy cap 400,000 gals; 29 hydrants; pipe 4 miles, 4 to 6 in dia; pressure 40 to 60 pounds; waterworks owned by company; cost to construct \$22,000. Supt, C. C. Cole.*

Keesville, Essex Co., population 2,103; fire area 1 sq mile; buildings, wood, brick and stone, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, 1 supply wagon, fire patrol with truck; hose, cotton good 100 ft, leather good 400 ft; value of fire department equipment \$1,500; value of buildings occupied \$2,000; ann expenses \$100; total membership 120, volunteer. Chief engineer, E. C. Bull.*

WATER SUPPLY—Source, Ausable river; system, direct pumping; pumping engines, dy cap 2,000,000 gals; 50 hydrants; pipe 5½ miles, 2 to 12 in dia; 25 valves; pressure, domestic 80, fire 80 to 100 pounds; 237 taps; waterworks owned by village; cost to construct \$35,000; cost to date \$37,500; ann expenses \$500. Supt, J. D. Cord.

Kennedy, Chautauque Co., population 514; fire area 100 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, bucket brigade.

WATER SUPPLY—Source, brook and wells. Town clerk, Samuel Smith.

Kinderhook, Columbia Co., population 1,100; fire area 200 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, leather good 200 ft, inferior 250 ft; value of fire department equipment \$8,000; value of buildings occupied \$3,000; total ann expenses of department \$200; total membership 38, paid full time 1, remainder volunteers; bell alarm. Chief engineer, Frank S. Hoag.

WATER SUPPLY—Source, 15 reservoirs in different parts of village; reservoirs cap 300,000 gals; works owned by village; cost to construct \$4,000.

Kingston, Ulster Co., (includes Rondout) population 25,000; fire area 3 miles x $\frac{1}{2}$ mile; mercantile buildings, brick, 2 to 5 stories; private, wood and brick, 1 to 3 stories; wooden roofs are permitted mostly tin and iron; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 2 hook and ladder trucks, 10 hose carriages, all kinds; hose, cotton good 6,000 ft, fair 2,000 ft; 7 horses; value of fire department equipment \$10,000; value of buildings occupied \$20,000; total membership 500; paid full time 4; bell alarm. Chief engineer, James S. Winnie.

WATER SUPPLY—Source, Sawkill creek, in Catskill Mts; system, gravity; reservoir cap 80,000,000 gals; hydrants 323; pipe $\frac{1}{2}$ in, 20 to 4 in; pressure, domestic 65 to 130, fire same pounds; waterworks owned by company; original cost to construct \$800,000. Supt. O. C. Longyear.

Lancaster, Erie Co., population 3,500; fire area 700 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; slamese couplings used; hose, cotton 1,300 ft, rubber 60 ft, leather 100 ft; value of fire department equipment \$2,700; value of buildings occupied by H. & L. Co. \$1,500; total ann expenses of department \$75; total membership 85, volunteers; bell alarm. Chief engineer, Henry Balthasar.

WATER SUPPLY—Source, wells and creeks.

Lansingburgh, Rensselaer Co., population 10,550; mercantile buildings, brick, 3 to 5 stories; private, brick and wood, 2 and 3 stories. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; several factories have apparatus and steam fire pumps; hose, good 2,000 ft; 5 horses; total ann expenses of department \$5,000; total membership 52; telegraph alarm; 13 street boxes. Chief engineer, J. H. Ingram.

WATER SUPPLY—Source, Oil Mill creek; system, gravity; 3 reservoirs, cap 11,700,000 gals; 136 hydrants; pipe 15 3-100 miles, 4 to 12 in dia; 33 meters; 186 valves; pressure 75 pounds; waterworks owned by city; cost to construct \$227,000; ann expenses \$12,000. Supt. J. C. Golden.*

Larchmont, Westchester Co., population 1000; fire area 640 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,800; value of buildings occupied \$2,000; total ann expenses of department \$225; total membership 105, volunteers; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Chas. C. Little.

WATER SUPPLY—Source, Sheldrake lake; system, gravity; reservoir cap 16,000,000 gals; 30 hydrants; pipe $\frac{1}{2}$ in, 16 valves; 128 taps; pressure 40 to 45 pounds; works owned by company; cost to construct \$110,000, to date \$119,000; ann expenses \$1,200. Supt. W. H. Campbell.

Le Roy, Genesee Co., population 3,500; fire area 15 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine or wheels, 1 hook and ladder truck, 2 hose carriages, bucket cart; hose, cotton good 2,000 ft,

inferior 1,000 ft; value of fire department equipment \$12,000; value of buildings occupied \$6,000; total ann expenses of department \$2,000; total membership 75, volunteers; bell alarm. Chief engineer, S. D. Gilbert.

WATER SUPPLY—Source, Oatka creek; system, direct pumping; La France pumping engines; 32 hydrants; 9 valves; pipe 3 miles, 6 in dia; pressure 110 to 140 pounds; waterworks owned by city; cost to construct \$8,000; ann expenses \$800. Supt. S. D. Gilbert.

Lima, Livingston Co., population 1,100; fire area 500 acres; buildings, brick and wood, 2 and 3 stories; iron and tin roofs; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft, inferior 500 ft, linen good 200 ft; value of equipment \$4,500; value of buildings occupied \$3,000; total membership 80, volunteers. Chief engineer, S. E. Bronson.

WATER SUPPLY—Source, cisterns and wells. (Works contemplated.)

Little Falls, Herkimer Co., population 9,000; buildings, brick and wood, 2 to 4 stories; no fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 4,000 ft; expenses for past year \$4,000; total membership 180, paid 9, volunteers 300; telegraph alarm; 23 street boxes. Chief engineer, R. Levie.

WATER SUPPLY—Source, Trout brook; system, gravity; 2 reservoirs, cap 25,000,000 gals and 3,000,000 gals, dy cap 4,000,000 gals; 132 hydrants; pipe 26 5-8 miles, 4 to 20 in dia; 257 valves; pressure, domestic 40 to 140, fire 140 to 250 pounds; Edison pressure recording gauge; waterworks owned by village; cost to construct \$300,000; ann expenses \$16,000. Supt. S. E. Babcock.

Little Valley, Cattaraugus Co., population 1,100; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; 1,000 ft good cotton hose; value of equipment \$800. Chief engineer, A. E. Darrow. (Hook and ladder truck contemplated.)

WATER SUPPLY—Source, springs; system, gravity; reservoirs, cap 1,000,000 gals; pipe 5 miles; 18 hydrants; pressure 100 pounds; cost to construct \$12,800. Pres and supt, Samuel Dunham.*

Liverpool, Onondaga Co., population 1,800; buildings, brick and wood, 3 stories; wooden roofs permitted. Fire department—3 chemical extinguishers, 1 hook and ladder truck, buckets; value of fire department equipment \$600; total membership 24, volunteers. Chief engineer, J. Smith.

WATER SUPPLY—Source, wells and cisterns.

Livingston Manor, Sullivan Co., population 900; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. No organized fire department.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 500,000 gals; 24 hydrants; pipe 3 miles, 6.4 and 3 in dia; 12 valves; 32 taps; pressure 45 pounds; works owned by company; cost to construct \$30,000. Supt. J. G. Stevens.

Lockport, Niagara Co., population 17,000; mercantile buildings, brick, stone, and wood, 2 to 4 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 4,500 ft, inferior 1,500 ft; 2 horses; value of fire department equipment \$4,000; value of buildings occupied \$35,000; total ann expenses of department \$7,500; total membership 170, 2 paid part time, volunteers; Game-well alarm; 34 street boxes; button at chief's residence; automatic box at police station. Chief engineer, Chas. E. Carnall.

WATER SUPPLY—Source, Erie canal; system, direct pumping; pumping engines, dy cap 8,000,000 gals; 360 hydrants; pipe 22 $\frac{1}{2}$ miles, 6 to 20 in dia; 210 valves; pressure, domestic 75, fire 75 to 100 pounds; waterworks owned by city; cost to construct \$40,000, to date \$63,000; ann expenses \$10,000. Supt. R. J. Sterrett.

Long Island City, Queens Co., population 40,000; fire area 1,900 acres; mercantile buildings, stone, iron, brick and wood, 3 stories; private, brick and wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 2

hand engines, 6 chemical extinguishers, 3 hook and ladder trucks, 4 hose carriages, 2 supply wagons, several hand jumpers; hose, rubber good 4,000 ft, cotton good 2,000 ft; 8 horses, value \$2,750; value of fire department equipment \$40,000; value of buildings occupied \$30,000; total ann expenses of department \$11,000; total membership 16, paid full time; Gamewell alarm; 10 street boxes. Chief engineer, W. H. Delahanty.

WATER SUPPLY—Source, dug and driven wells; system, direct pumping; 550 hydrants; pipe 17 miles, 6 to 18 in dia; 2,584 taps; pressure, domestic 50, fire 75 pounds; waterworks owned by city. Supt, Henry W. Sharkey.

Lowville, Lewis Co., population 2,511. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, hose, rubber good 1,600 ft, linen and leather fair 400 ft; total membership 120, volunteers. Chief engineer, J. D. Moore.*

WATER SUPPLY—Source, creek, 7 cisterns. A system of works will be put in this year. Pres. B. B. Richardson.

Lyons, Wayne Co., population 5,200; fire area 1 mile square; mercantile buildings, brick and wood, 2 and 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, linen (rubber lined) good 4,000 ft, inferior 600 ft; value of fire department equipment \$10,000; value of buildings occupied \$6,500; total ann expenses of department \$1,500; membership 150, volunteers; bell alarm; 4 hose companies, 1 hook and ladder company. Chief engineer, George Kent.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; standpipe cap 117,500 gals; pumping engines, (2) dy cap 1,000,000 gals; each; hydrants 49; pipe 9 miles, 4 to 10 in dia; 50 valves; 300 taps; pressure, domestic 75, fire 87 pounds; standpipe 100 direct; waterworks owned by company; cost to construct \$50,000, to date \$56,000; ann expenses \$2,900. Supt, E. A. Brower.

Madrid, St. Lawrence Co., population 605; fire area 1 mile; buildings, brick and wood, 1½ and 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 300 ft, inferior 100 ft; value of equipment \$1,000; value of buildings occupied \$300; bell alarm. Chief engineer, F. C. Tracey.*

WATER SUPPLY—Source, river, tanks.*

Malone, Franklin Co., population 5,000; fire area 700 acres; mercantile buildings, brick, 3 to 4 stories; private, wood, 1 to 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; 3 horses, value \$450; hose, good cotton 1,500 ft, rubber good 1,300 ft; value of fire department equipment \$7,000; value of 3 buildings occupied \$5,000; total ann expenses of department \$1,500; total membership 45, volunteers; Gamewell fire alarm; 14 street boxes. Chief engineer, H. A. Miller.

WATER SUPPLY—Source, springs, 8 miles from village; system, gravity; reservoir cap 1,500,000 gals; hydrants 72; pipe 25 miles, 12 to 2 in dia; 400 valves; pressure, domestic 93, fire 93 pounds; waterworks owned by company. Supt, Geo. Sabin.

Mamaroneck, Westchester Co., population 4,000; mercantile buildings, brick and wood, 3 stories; private, wood, 2½ stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 patrol wagon; hose, cotton, good 2,000 ft, inferior 300 ft; total membership 75, volunteer members; bell alarm. Chief engineer, Wm. H. Merritt.

WATER SUPPLY—Source, Mamaroneck river; system, pumping to reservoir, cap 1,000,000 gals; pumping engines, dy cap 250,000 gals; hydrants 15; pipe 15 miles, 8 in dia; 15 valves; 110 meters; pressure, domestic 80 to 65 pounds; waterworks owned by company; cost to construct \$85,000; ann expenses \$2,500. Supt, Louis Ottmann.

Mannville, Onondaga Co., population 942; fire area 500 acres; buildings, wood, 2 stories; wooden

roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 100 ft, rubber good 400 ft, leather good 200 ft; value of fire department equipment \$2,700; value of buildings occupied \$1,500; total ann expenses of department \$200; total membership 48, volunteers; triangle alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, W. E. Ackeman.*

WATER SUPPLY—Source, spring; system, gravity; 4 hydrants; pipe 1-4 miles, 3 in dia; pressure, domestic 10 pounds; works owned by company; cost to construct \$500. Supt, C. W. H. Wood.

Marathon, Cortland Co., population 1,198; fire area 1 sq mile; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 small steam engine, 1 hand engine, 2 hose carriages, slamese couplings used; hose, cotton good 700 ft, rubber good 300 ft; value of equipment \$3,000; value of buildings occupied \$4,000; total ann expenses of department \$500; total membership 50, volunteers; bell alarm; 3 fire companies. Chief engineer, C. Burgess.*

WATER SUPPLY—Source, river, creek, cisterns, wells; 1 reservoir; 12 hydrants.

Marcusville, Onondaga Co., population 563; buildings, wood, 1 1-2 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft; value of equipment \$3,500; value of buildings occupied \$1,500. Chief engineer, M. B. Van Vranken.*

WATER SUPPLY—Source, well, springs and cisterns. Village clerk, C. A. Roe.

Masspe, Queens Co. (See Newtown.)

Massena, St. Lawrence Co., population 1,048; buildings, brick, wood and stone, 1 and 2 stories. Fire department—2 hand engines, owned by village president; 1 hose carriage; bell alarm.

WATER SUPPLY—Source, river and well. City clerk, Col. L. S. Dornay.

Mattawau, Dutchess Co., population 6,200; fire area 2,148 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 1-2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 1,400 ft, inferior 150 ft, rubber good 100 ft, inferior 60 ft; value of fire department equipment \$2,000; value of buildings occupied \$7,000; expenses of department \$500; 50 volunteer members; bell alarm; 1 engine company. Chief engineer, S. H. Tilman.

WATER SUPPLY—Source and system not given; 3 reservoirs, cap 8,000,000 gals; 25 hydrants; pipe 3 miles; pressure 110 pounds. Supt, Albert Brinkhoff.

Mayville, Chautauque Co., population 1,200; fire area 1 mile sq; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; 400 buckets; hose, cotton good 1,100 ft; value of fire department equipment \$3,100; value of buildings occupied \$1,850; total ann expenses of department \$1,400; total membership 60, volunteer members; electric bell alarm. Chief engineer, E. A. Cadwell.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe 50 by 12 ft; pumping engines, dy cap 1,000,000 gals; hydrants 20; pipe 3 1-2 miles, 4 to 3 in; 12 valves; 25 taps; pressure, domestic 40, fire 40 to 80 pounds; waterworks owned by city; original cost to construct \$16,750; expenses of construction to date \$19,000; ann expenses \$1,800.

Mechanicville, Saratoga Co., population 4,500; area 700 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages, 1 hose wagon; slamese couplings used; hose, cotton good 2,900 ft; value of fire department equipment \$4,500; value of buildings occupied \$2,000; ann expenses \$500; 75 volunteer members; bell alarm. Chief, elected by members, H. S. Miller.

WATER SUPPLY—Source, river, canal and stream; system, gravity; reservoir cap 80,000,000 gals; 51

hydrants; pipe 6 miles, 4 to 12 in dia; 82 valves; 70 taps; pressure 75 pounds; works owned by village; cost to construct \$130,000. Supt. Wm. T. Baker.

Medina, Orleans Co., population 4,492; fire area 160 acres; mercantile buildings, stone and brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,500 ft. inferior 300 ft.; value of fire department equipment \$4,500; total ann expenses of department \$1,236; total membership 142; paid part time 2, volunteer members 140; bell alarm. Chief engineer, Fred M. Ives.

WATER SUPPLY.—Source, springs, 4 miles E of town; system, pumping to stand pipe; standpipe cap 23 x 100 ft; hydrants 40; pipe 18 miles, 4 to 12 in; pressure, domestic 40, fire 60 to 80 pounds; waterworks owned by company. Supt. Fred. Dingledun.

Mexico, Oswego Co., population 1,315; fire area 700 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 supply cart, 2 hose couplings; hose, cotton good 1,600 ft. inferior 200 ft.; value of fire department equipment \$5,500; value of building occupied \$500; 35 members; bell alarm. Chief engineer, J. M. Wing.

WATER SUPPLY.—Source, 4 cisterns and creeks. Village clerk, W. M. Richardson.

Middleburg, Schoharie Co., population 1,139; buildings, wood and brick, 2 and 3 stories. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carts; hose, rubber 250 ft, cotton good 900 ft; value of fire department equipment \$5,500; value of buildings occupied \$1,500; total ann expenses of department \$200; 2 fire companies. Chief engineer, G. L. Danforth.

WATER SUPPLY.—Source, creek and river; 3 reservoirs. Village clerk, J. E. Young. (Will build gravity system of works this year to cost \$30,000. City engineer, A. J. Cooper.)

Middleport, Niagara Co., population 1,250; fire area 200 acres; fireworks ordinance; buildings, brick and wood, 2 stories; wooden roofs not permitted. Fire department—1 horse-power engine, 2 Babcock fire extinguishers, 1 hook and ladder truck, fully equipped, 1 hose carriage, 1 hose cart; hose, cotton good 1,200 ft; value of equipment \$3,000; value of buildings occupied \$5,500; ann expenses past year \$325; 1 engine company, 1 hose company, 1 hook and ladder company; 56 volunteer members. Chief engineer, F. J. Pennville.*

WATER SUPPLY.—Source, canals, creeks and ponds. Village clerk, Wm. D. Hoyt.*

Middletown, Orange Co., population 12,500; fire area 20 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2½ stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 9 hose carriages, 1 patrol wagon; hose, cotton good 6,200 ft, inferior 300 ft; 2 hose, value \$450; value of fire department equipment \$8,875; value of buildings occupied \$24,000; total ann expenses of department \$3,000; 276 volunteer members; electric alarm; street boxes 26; 2 engine companies, 1 hook and ladder company, 3 hose companies. Chief engineer, Edwin Thorpe.

WATER SUPPLY.—Source, springs and surface water; system, gravity and pumping to reservoir, reservoir cap 600,000 gals; pumping engines, dy cap 1,500,000 gals; 168 hydrants; pipe 25 miles, 2 to 20 in dia; 170 valves; 1,478 taps; pressure 60 to 80 pounds; waterworks owned by city; cost to construct \$75,162; ann expenses \$1,178. Pres of com, J. W. Canfield; supt, Isaac F. VanDuzer.

Millerton, Dutchess Co., population 750; fire area 1 sq mile; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,500; total membership 20, volunteers; bell alarm. Chief engineer, William Tradd.

WATER SUPPLY.—Source, springs and wells; system, gravity; reservoir cap 800,000 gals; 25 hy-

drants; pipe 3¼ miles, 8 to 4 in dia; 70 taps; pressure 75 to 80 pounds; works owned by village; cost to construct \$18,000. Supt. P. N. Paine.

Mohawk, Herkimer Co., population 1,880; fire area 2,000 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$250; total membership 23, volunteers; bell and whistle alarm. Chief engineer, W. R. Hammond.

WATER SUPPLY.—Source, spring; system, pumping to standpipe; standpipe cap 75,000 gals; pumping engines, dy cap 1,000,000 gals; 43 hydrants; pipe 7½ miles, 8, 4 and 2 in dia; 36 valves; 250 taps; pressure 85 pounds; works owned by village; cost to construct \$33,000; ann expenses \$1,200. Supt. O. Horton.

Moira, Franklin Co., population estimated 1,500; buildings, brick and wood, 1½ stories. Fire department—1 hook and ladder truck; value of fire department equipment \$100; 40 volunteer members; bell alarm. Foreman, A. B. Withwell.

WATER SUPPLY.—Source, cisterns and wells.

Monroe, Orange Co., population 1,200; fire area 200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—buckets and ladder.*

WATER SUPPLY.—Source, wells and springs.*

Montgomery, Orange Co., population 1,024; fire area 1,000 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hose carriage; hose, linen good 300 ft, cotton good 600 ft; valve of fire department equipment \$3,000; 1 building owned by department, value \$2,500; expenses for past year \$400; 79 volunteer members; bell alarm. Secy, William McNeal, Jr.

WATER SUPPLY.—Source, river.

Monticello, Sullivan Co., population 1,300; fire area 320 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 and 3 stories; shingle and slate roofs. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 jumper; hose, rubber good 5,000 ft, cotton good 500 ft; value of fire department equipment \$4,000; buildings occupied value \$3,800; 90 volunteer members; bell alarm. Chief engineer, S. W. Demarest.

WATER SUPPLY.—Source, wells and cisterns.

Moravia, Cayuga Co., population 1,650; mercantile buildings, brick and wood, 2 stories; private, same; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose couplings in use; hose, linen good 1,500 ft, inferior 150 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,500; 75 volunteer members; bell alarm; 2 hose companies, 1 hook and ladder company. Chief engineer, W. J. Gunnfield.*

WATER SUPPLY.—Source, springs; system, gravity; reservoir cap 150,000 gals; 100 taps; 30 hydrants; pipe 8 miles, 3 to 10 in dia; 10 gates; pressure 85 pounds; cost to construct \$35,000; ann expenses \$400. Supt, Fred C. Reynolds.*

Morristown, Essex Co., population estimated 1,000; buildings, brick and wood, 2 stories. Fire department—1 hand engine; hose, 200 ft; value of fire department equipment \$250; 25 volunteer members. Chief engineer, Joseph Wright.

WATER SUPPLY.—Source, large well in center of village.

Mount Kisco, Westchester Co., population 1,200; fire area 2 miles by 1 mile; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 850 ft; value of fire department equipment \$2,150; 75 volunteer members. Chief, C. L. Watson.

WATER SUPPLY.—Source, wells, cisterns, brooks and 2 hydrants. Village clerk, W. B. Osborne.

Mount Morris, Livingston Co., population 2,280; fire area 400 acres; mercantile buildings,

brick, 2 stories; private, brick and wood, 2 stories; tin roofs; no fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 2 hose carts; hose, cotton good 3,000 ft, value of fire department equipment \$2,000; value of buildings occupied \$1,500; total ann expenses of department \$300; 70 volunteer members; bell alarm; 4 fire companies. Chief engineer, John C. Winters.

WATER SUPPLY—Source, springs; system, gravity; 26 hydrants; pipe 5 miles, 4 to 10 in dia; 21 gates; pressure 45 to 60 pounds; waterworks owned by company; cost to construct \$80,000; ann expenses \$750. Pres of com, M. H. Mills; supt, P. McCormick.

Mount Vernon, Westchester Co., population 17,000; mercantile buildings, brick and stone, 3 stories; private, wood and brick, 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, 1 fire patrol; hose, cotton good 22,000 ft, rubber good 1,800 ft, inferior 200 ft; total membership 320, all volunteers; 3 engine companies, 1 hook and ladder company, 3 hose companies; Gamewell alarm; 17 street boxes. Chief engineer, Edwin W. Flake.

WATER SUPPLY—Source, Hutchinson's and Tom Paine creeks; system, pumping from reservoir to standpipe; cap 235,000 gals; 5 reservoirs, cap 252,000,000 gals; pumping engines, dy cap 2,000,000 gals; 312 hydrants; pipe 38 miles, 4 to 16 in dia; 50 valves; 2,700 taps; pressure 100 pounds; waterworks owned by company. Supt, G. E. Hoffmaster.

Naples, Ontario Co., population 1,266; area 700 acres; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage with 100 buckets; hose, leather 500 ft; membership 36, volunteers; bell alarm. Foreman, Herman Rohlin.

WATER SUPPLY—Source, wells, springs and cisterns.

Newark, Wayne Co., population 4,000; fire area 640 acres; mercantile buildings, brick and iron, 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,200 ft, rubber good 700 ft; value of fire department apparatus \$6,000; value of department buildings \$3,000; total ann expenses \$1,000; 117 volunteer members; bell alarm. Chief engineer, F. E. Nellis.

WATER SUPPLY—Source, springs; system, pumping to standpipe from reservoir; reservoir cap 1,300,000 gals; standpipe cap 200,000 gals; 2 pumps, dy cap 2,000,000 gals; 97 hydrants; pipe 9½ miles, 4 to 13 in dia; 20 taps; 71 valves; pressure, domestic 65, fire 110 pounds; waterworks owned by company; cost to construct \$120,000. Supt, H. A. Gardner.

Newark Valley, Tioga Co., population 875; fire area 200 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine, 1 hook and ladder truck, 1 supply wagon; hose, rubber good 200 ft; value of fire department equipment \$1,600; value of fire department buildings \$1,500; 100 volunteer members; whistle and gong alarm; 3 fire companies. Chief engineer, Thomas Knaggs.

WATER SUPPLY—Source, wells and cisterns.

New Berlin, Chenango Co., population 1,000; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, rubber poor 350 ft; value of fire department equipment \$2,000; value of buildings occupied \$800; total ann expenses of department \$350; 60 volunteer members; bell alarm; 1 engine company, 2 hose companies, 1 hook and ladder company. Chief engineer, M. H. Fish.

WATER SUPPLY—Source, springs and brooks; system, gravity; reservoir cap 14,000,000 gals; 28 hydrants; pipe 4 miles, 4 to 10 in dia; 15 valves; 150 taps; pressure 118 to 125 pounds; works owned by village; cost to construct \$38,000; ann expenses \$50. Supt, Henry McGuire.

New Brighton, Richmond Co., population 16,-

423; fire area 7 x 1½ miles, covering West New Brighton, Port Richmond and Elm Park; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—3 steam fire engines, 1 hand engine, 1 chemical engine, 5 hook and ladder trucks, 6 hose carriages, 4 hose wagons; hose, cotton good 1,200 ft, inferior 200 ft, rubber good 3,000 ft, inferior 500 ft; value of fire department equipment \$12,000; total ann expenses of department \$4,000; 900 volunteer members; telephone and bell alarm. Chief engineer, Wm. J. Burles.*

WATER SUPPLY—Source, 76 driven wells; system, pumping to reservoir; reservoir cap 750,000 gals; pumping engines, dy cap 8,000,000 gals; 438 hydrants; pipe 50 miles, 4 to 20 in dia; 312 valves; 3,174 taps; pressure 85 pounds; waterworks owned by company; cost to construct \$200,000; ann expenses \$23,000. Supt, J. Seymour Warde.

Newburgh, Orange Co., population about 95,000; fire area 2,500 acres; mercantile buildings, brick, stone and wood, 1 to 4 stories, private, brick and wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 6,300 ft, fair 1,850 ft, rubber good 250 ft; 10 horses; value of fire department equipment \$25,500; value of buildings occupied \$50,000; expenses for past year \$5,495; total membership 554, paid part time 9, volunteer members 545; Gamewell alarm; 23 street boxes, 9 indicators, 2 tappers. Chief engineer, Wm. Nixon.

WATER SUPPLY—Source, Washington lake and Silver stream, 3¼ miles southwest of city; system, gravity, pumping to reservoir; reservoir cap 1,597,342 gals; pumping engines, dy cap 263,530 gals; hydrants 320; pipe 32.9 miles, 24 to 4 in dia; 371 valves; pressure, domestic 50 to 80 pounds, fire same; works owned by city; cost to construct \$312,000, to date \$738,000; ann expenses \$15,000. Supt, Curtis Stanton.

New Dorp, Richmond Co., population 500; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire Co. organized, no apparatus purchased as yet.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 250,000 gals; pipe 3 miles; quality of water good; works owned by company. Supt, E. W. Sinker.

New Lebanon, Columbia Co., population 1,765; fire area 12 sq miles; mercantile buildings, wood, 30 ft; private, wood, 30 ft; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, wells.*

New Lots, Kings Co., part of Brooklyn.

New Paltz, Ulster Co., population 1,100; fire area 1 sq mile; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 750 ft; value of fire department equipment \$1,500 to \$2,000; value of buildings occupied \$5,000; total ann expenses of department \$1,000; total membership 70, volunteers; bell alarm. Chief engineer, Geo. E. Johnston.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 700,000 gals; hydrants 38; pipe 5 miles, 10 to 4 in dia; 23 valves; 48 taps; pressure, domestic 120, fire 140 pounds; waterworks owned by company; original cost to construct \$50,000. Supt, James P. Hayden.

Newport, Herkimer Co., population 1,200; fire area 400 sq yards; mercantile buildings, wood and stone, 2 stories; private, wood, 2 stories; wooden roofs permitted; prohibitory fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 600 ft, leather good 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total membership 34, volunteers; bell alarm. Chief engineer, E. P. Kimball.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoir 250,000 cubic ft; 1 hydrant; 3 miles of pipe 4 to 3 in dia; 9 valves; pressure 60 pounds; 150 taps; works owned by village; cost to

construct \$12,000; ann expenses \$500. Water com. B. K. Brown. (Will add 12 hydrants this year.)

New Rochelle, Westchester Co., population 9,980; fire area 1,750 sq miles; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 fire patrol; hose, cotton good 2,800 ft, inferior 200 ft; value of fire department equipment \$10,500; value of buildings occupied \$5,000; total ann expenses of department \$2,500; 125 volunteer members; bell alarm; 4 fire companies, 2 engines companies, 1 hose company, 1 hook and ladder company. Chief engineer, James Ross.

WATER SUPPLY—Source, Hutchinson river; system, gravity; reservoir cap 100,000,000 gals; 77 hydrants; pipe 25 miles, 4 to 12 in dia; 110 valves; 560 meters; pressure 40 pounds; Edson pressure recording gauge; waterworks owned by company; cost to construct \$300,000; ann expenses \$8,081. Supt. F. H. Davis.*

Newtown, Queens Co., population est 10,000; fire area 24 sq miles; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—3 steam fire engines, 2 hand engines, 3 chemical extinguishers, 6 hook and ladder trucks, 3 hose carriages; hose, linen good 200 ft, cotton 2,600 ft, poor 200 ft, rubber good 1,200 ft; expenses for past year \$1,700; total membership 308, volunteers; bell alarm; 3 engine companies, 4 hook and ladder companies; Gamewell alarm; 14 street boxes. Chief engineer, Richard A. Homeyer.

WATER SUPPLY—Present source, wells, cisterns, ponds and streams; are constructing the following works: Source, artesian wells; system, pumping to standpipe; standpipe 20x80 ft; pumping engines, dy cap 600,000 gals; pipe 4 miles, 14 to 8 in; pressure 40 to 60 pounds; waterworks owned by company. Sec'y, A. Rapelye.

New York, New York Co., population 1,715,721; fire area 26,500 acres; mercantile buildings, brick, stone and iron, 6 to 12 stories; private dwellings and office buildings 3 to 20 stories; frame structures or wooden roofs not permitted south of 155th st; fireworks ordinance; causes of fire investigated by fire marshal. Fire department—95 steam fire engines, including spare, 40 hook and ladder trucks, including spare, 6 of which are aerial, 31 hose wagons, 44 four wheel tenders and 33 two wheel tenders, including spare, 3 fire boats or floating engines; average number of horses, 370, value \$300 each; value of department equipment \$1,000,000; value of buildings including real estate \$1,750,000; ann expenses \$2,000,000; membership averages 1,100, all paid full time; Gamewell and Pearce and Jones fire alarm system; about 900 street boxes; about 800 special signals of all kinds, including thermostatic and automatic; 59 engine companies, of which 9 are double companies; 23 hose companies, of which 1 is double company; three of the 59 engine companies are quartered on fire boats. Chief engineer, Hugh Bonner; chief clerk of department, Wm. P. Allen. Fire Patrol: 5 stations, 82 men; expenses \$102,732. Supt. A. C. Hull.

WATER SUPPLY—Source, Croton and Bronx river; system, gravity, pumping to reservoir and a standpipe; reservoir cap 10,000,000 gals, dy standpipe 150 ft high, 5 ft in dia; pumping engines, dy cap 31,000,000 gals; hydrants 9,297; pipe 712 miles, 4 to 48 in dia; 7,456 valves; pressure 5 to 40 pounds; Edson pressure recording gauge; works owned by city; cost to construct \$87,500,000; cost to date \$70,000,000; ann expenses \$1,000,000. Com of public works, Michael T. Daly; chief engineer, G. W. Birdsall.

New York Mills, Oneida Co., population 2,552; mercantile buildings, brick; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 hand engines, 30 chemical extinguishers, 3 hose carriages, all kinds; hose, 3,800 ft, the above apparatus is the property of the New York Mills, a manufacturing corporation.*

WATER SUPPLY—Source, private; system, direct pumping; by hydrants 23.*

Niagara Falls, Niagara Co., population 17,000; fire area 7 miles long and 2 1-2 miles wide; mercantile buildings, wood, brick and stone, 3 and 4 stories; private, wood, 2 stories; no fireworks ordinance. Fire department—1 hand engine, 2

chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, all kinds, 1 hose wagon; hose, cotton good 3,000 ft, inferior 400 ft; 3 horses, value \$500; total ann expenses of department \$4,000; total membership 406, volunteer members 408; Gamewell alarm; street boxes 20. Chief engineer, Henry G. Ocha.

WATER SUPPLY—Source, Niagara river; system, direct pumping; standpipe cap 775,000 gals; pumping engines, dy cap 6,000,000 gals; 58 hydrants; pipe 20 miles, 4 to 18 in dia; pressure, domestic 60, fire 120 pounds; waterworks owned by company; cost to construct pipe line \$180,000; ann expenses \$8,000. Supt. B. T. Murray.

Northfield, Richmond Co., population estimated 900. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 2,100 ft; total membership 300, volunteers.

WATER SUPPLY—Source, river and wells.

Northport, Suffolk Co., no fire department.*

WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 350,000 gals; pumping engines, dy cap 750,000 gals; 20 hydrants; pipe 4 miles, 4 to 10 in dia; 3d valves; 150 taps; pressure, domestic 30 to 90, fire 60 to 150 pounds; waterworks owned by company; original cost to construct \$49,500; ann expenses \$1,500. Supt and secy, J. W. Olmsted.

North Tarrytown, Westchester Co., population 3,500; buildings, brick and wood, 3 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, fire patrol; hose, cotton good 1,300 ft; value of fire department equipment \$2,500; total membership 137, volunteers; assistance received from Tarrytown department. Chief engineer, J. W. Gamble.*

WATER SUPPLY—Source, Pocantico river; system, pumping to distributing reservoir; cap reservoir 15,000,000 gals; pumping engines, dy cap 5,000,000 gals; 135 double hydrants; pipe 35 miles, 4 to 20 in dia; valves 50; 900 taps; pressure 150 pounds; waterworks owned by company; cost to construct \$500,000; ann expenses \$5,000. Supt, Jos. H. Alworth.

Norwich, Chenango Co., population 5,300; fire area 4 miles sq; mercantile buildings, brick and wood, 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 chemical extinguisher, 2 hook and ladder trucks, 5 hose carriages, 5 hose couplings used; hose, cotton inferior 500 ft, linen 1,800 ft; value of fire department equipment \$7,500; rent of buildings occupied \$500; total ann expenses of department \$1,000; total membership 200, paid 3; electric alarm. Chief engineer, Chas. H. Wate.

WATER SUPPLY—Source, Hopkins brooks; system, gravity; 2 reservoirs, cap 90,000,000 gals; 37 hydrants; pipe 13 miles, 4 to 18 in dia; meters 2; pressure 60 and 70 pounds; Edson pressure recording gauge; waterworks owned by company; cost to construct \$100,000, to date \$175,000; ann expenses \$740. Supt, John Seward.

Nunda, Livingston Co., population 1,100; fire area 840 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,400 ft, inferior 200 ft, leather 500 ft; value of fire department equipment \$1,300; total ann expenses of department \$100; total membership 75, volunteers; bell alarm. Chief engineer, H. Peck.

WATER SUPPLY—Source, springs; system, gravity and pumping reserve to reservoir, cap 12,000 gals; 25 hydrants; pipe 7 miles, 4 to 10 in dia; 10 valves; pressure 75 pounds; waterworks owned by company; cost to construct \$25,000; ann expenses \$1,000. Supt, H. Willard.

Nyack, Rockland Co., population 4,111; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—(includes also Upper, South and West Nyack) 3 steam fire engines, 1 hand engine, 2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; 2 jumpers; hose, cotton good 3,250 ft, poor 250 ft, leather good 500 ft; value of fire department apparatus \$7,000; value of buildings occupied \$10,000; total ann expenses of department \$2,000; total membership 300, volunteers 300; bell alarm; 4 engine companies, 2 hook and ladder companies; 1 hose com-

pany. Chief engineer, Chas. Haines. Also have a fire police patrol, 65 men.

WATER SUPPLY—Source, springs and Hackensack river; system, gravity, pumping to reservoir; 5 reservoirs, total cap 5,000,000 gals; pumping engines, 4 cap 800,000 gals each; 41 hydrants; pipe 12 miles, 3 to 12 in dia; 45 valves; pressure 50 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$4,500. Supt, Wm. L. Voorhis.*

Oakdale (see Islip).

Oceanus, Queens Co., population 2,500; mercantile buildings, wood, 2 and 3 stories; private, brick and wood, 2 and 3 stories; tin and shingle roofs. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages; 4 hose carts; hose, cotton good 3,500 ft; total membership 120, volunteers; bell alarm; 4 fire companies. Chief engineer, John A. Carle.*

WATER SUPPLY—Source, supplied from Far Rockaway.*

Ogdensburg, St. Lawrence Co., population 11,682; fire area 50 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, wood, 2 1/2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose wagons, 4 hose sleighs; hose, cotton rubber lined good 4,200 ft; 3 horses owned by department; value of fire department equipment \$15,000; value of buildings occupied \$12,000; total ann expenses of department \$2,500; total membership 44, paid part time; telegraph and electric bells alarm; 16 street boxes; 4 fire companies. Chief engineer, Lyman D. Burt.

WATER SUPPLY—Source, Oswegatchie river; system, direct pumping; pumping engines, 4 cap 5,000,000 gals; 110 hydrants; pipe 20 miles, 4 to 14 in dia; 125 valves; 1,800 taps; pressure, domestic 45, fire 75 pounds; works owned by city; cost to construct \$100,000, cost to date \$200,000; ann expenses \$3,500. Supt, H. A. Lord.

Olean, Cattaraugus Co., population 12,000; mercantile buildings, wood and brick, 2 to 4 stories; private, wood and brick, 1 to 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 fire police wagon; equipped; hose, cotton good 4,250 ft, inferior 700 ft, linen good 300 ft, rubber good 150 ft; value of fire department equipment \$12,000; value of buildings occupied \$8,000; total ann expenses of department \$1,900; total membership 232, volunteers; Gamewell alarm; 15 street boxes; 1 fire police company, 1 hook and ladder company, 5 hose companies. Chief engineer, Joseph I. Long.

WATER SUPPLY—Source, dug and driven wells; system, pumping to reservoir and direct; reservoir cap 2,500,000 gals; pumping engines, 4 cap 3,000,000 gals; 105 hydrants; pipe 14 1-3 miles, 4 to 12 in dia; 200 valves; pressure 80 to 90 pounds; waterworks owned by city; cost to construct \$75,000, to date \$118,896; ann expenses \$12,215. Supt, John Z. LeFevre.

Oneida, Madison Co., population 7,500; fire area 60 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, all kinds; hose, cotton good 2,000 ft, linen good 1,000 ft; value of fire department equipment \$25,000; value of buildings occupied \$15,000; total ann expenses of department \$2,000; total membership 136, volunteers; Gamewell alarm; 11 street boxes; 5 fire companies. Chief engineer, W. D. Taylor.

WATER SUPPLY—Source, creeks and springs; system, gravity; reservoir cap 25,000,000 gals; 84 hydrants; pipe 13 miles, 4 to 16 in dia; 95 valves; pressure, domestic 80 pounds, fire same; works owned by company; cost to construct \$140,000, to date \$146,000; ann expenses \$2,000. Supt, Laurel Meador.

Oneonta, Otsego Co., population 7,500; fire area 500 acres; mercantile buildings, brick and wood, 2 to 4 stories; private, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand en-

gine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 3,500 ft, inferior 400 ft; value of fire department equipment \$10,000; value of buildings occupied \$4,500; total expenses for past year \$1,000; total membership 180, paid part time 3, remainder volunteers; Gamewell alarm; 7 street boxes; 5 fire companies, 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, Albert Shaler.

WATER SUPPLY—Source, Oneonta creek and Wilber lake; system, gravity; reservoir cap 500,000,000 gals; 83 hydrants; pipe 17 miles, 4 to 20 in dia; pressure, domestic 70 pounds, fire 80 to 80 pounds; works owned by company; cost to construct \$200,000. Supt, T. A. Norton.

Oswego, Oswego Co., population 22,000; fire area 5,120 acres; mercantile buildings, brick, 4 and 5 stories; private, wood, 1 1/2 and 2 stories; causes of fire investigated. Fire department—3 steam fire engines, 1 chemical engine on wheels, 8 chemical extinguishers, 2 hook and ladder trucks, 4 hose carriages, 2 hose wagons, slamesse couplings used; hose, linen good 7,500 ft, inferior 2,600 ft; 9 horses owned, 15 in use, value \$1,875; value of fire department equipment \$31,000; value of 4 buildings occupied \$32,700; total ann expenses of department \$21,000; total membership 37, paid full time 14, paid part time 23; telegraph alarm; 38 street boxes. Chief engineer, Robert G. Blackburn.

WATER SUPPLY—Source, Oswego river; system, pumping to reservoirs; 2 reservoirs, cap 21,000,000 gals; water-power pump, 4 cap 5,000,000 gals; 554 hydrants; pipe 43 1/2 miles, 4 to 12 in dia; 128 valves; pressure, domestic 30 to 65, fire 65 to 120 pounds; waterworks owned by company; cost to construct \$900,000; ann expenses \$13,500. Supt, Thomas H. Bennett.

Oswego Falls, Oswego Co., population 2,200; fire area 720 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages, 4 fire ladders; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; total ann expenses of department \$350; total membership 50, volunteers; bell alarm; 2 hose companies. Chief, Geo. E. Fisher.

WATER SUPPLY—Source, supply from Fulton.

Otego, Otego Co., population 625; fire area 600 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton fair 600 ft; value of fire department apparatus \$600; annual expenses \$50; total membership 23, volunteers.

WATER SUPPLY—Source, Otadawa creek and springs; system, gravity; pump to reservoir, cap 60,000 gals; pipe 4 miles, 4 and 6 in dia; 13 hydrants; 120 taps; pressure 65 pounds; works owned by company; cost to construct \$18,000. Supt, F. D. Shumway.

Ovid, Seneca Co., population 641; fire area 240 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine (2 1/4 miles distant, subject to telephone call), 1 hand-engine, 1 hose carriage; hose, cotton good 1,060 ft, rubber good 100 ft; total membership 31, volunteers. Chief engineer, J. F. Crans.

WATER SUPPLY—Source, creek, 6 cisterns; reservoir.

Owego, Tioga Co., population 6,000; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 protective wagon with 500 ft of hose; hose, cotton good 4,150 ft, inferior 400 ft, linen inferior 200 ft; value of fire department equipment \$11,000; value of buildings occupied \$20,000; total ann expenses of department \$2,000; total membership 264, volunteers; bell and telephone alarm; 1 engine company, 1 protective company, 1 hook and ladder company, 3 hose companies. Chief engineer, James J. Leahy.

WATER SUPPLY—Source, Barnes creek; system, gravity, with auxiliary pumping; reservoir cap 75,000,000 gals; pumping engines, 4 cap 500,000 gals; 183 hydrants; pipe 13 miles, 6 to 12 in dia; 49 valves; 450 taps; pressure 100 pounds; waterworks

controlled by R. D. Wood & Co; cost to construct to date \$140,000. Supt. Geo. Y. Robertson. (A 90,000,000 gals storage reservoir contemplated.)

Oxford, Chenango Co., population 1,600; fire area 1 sq mile; buildings, wood, 2 and 2½ stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, good cotton 1,500 ft, inferior 500 ft; value of fire department equipment \$7,500; value of buildings occupied \$2,000; total membership 125, volunteers; bell alarm; total ann expenses \$1,000. Chief engineer, C. S. Hayes.

WATER SUPPLY—Source, stream; system, gravity and pumping for fire protection; 7 hydrants; pipe ½ mile, 4 in dia; works owned by village. Secy, L. A. Knott.

Oyster Bay, Queens Co., population estimated 2,500; fire area 200 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine, 6 chemical extinguishers, 2 hook and ladder trucks; hose, rubber good 2,000 ft; value of fire department equipment \$4,000; total membership 118, volunteers; bell alarm; 2 fire companies. Foreman, W. E. Nelson.

WATER SUPPLY—Source, stream and wells. #

Palmyra, Wayne Co., population 2,131; mercantile buildings, brick, 3 stories; private, wood, 2 stories. Fire department—1 steam fire engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, siamese couplings used; hose, cotton 800 ft, linen good 650 ft; value of buildings occupied \$5,000; total ann expenses of department \$600; total membership 100, volunteers; bell alarm. Chief engineer, G. C. Williams.

WATER SUPPLY—Source, cistern wells; system, dumping to standpipe; standpipe cap 175,000 gals; pumping engines, dy cap 1,000,000 gals; 40 hydrants; pipe 4½ miles, 4 to 10 in dia; 82 meters; pressure, domestic 75, fire 75 to 100 pounds; works owned by company; cost to construct \$60,000. Supt. R. A. Vanderboegt. #

Patchogue, Suffolk Co., population estimated 3,000; fire area 1 sq mile; mercantile buildings, brick and wood, 2, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton inferior 800 ft, rubber good 2,300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,800; total ann expenses of department \$1,600; total membership 140, volunteers; bell alarm; 4 fire companies. Chief engineer, Edwin Bailey.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 75,000 gals; pumping engines, dy cap 1,500,000 gals; 28 hydrants; pipe 5 miles, 12 to 8 in dia; pressure 40 to 100 pounds; waterworks owned by company; cost to construct \$100,000. Supt. C. W. Ruland.

Peekskill, Westchester Co., population 10,000; mercantile buildings, brick, 3 stories; private, brick and wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 3,200 ft, leather good 1,000 ft; value of fire department equipment \$25,000; value of 2 buildings occupied \$25,000; total ann expenses of department \$3,000; total membership 400, volunteers; electric alarm; 80 street boxes. Chief engineer, J. H. Haight. #

WATER SUPPLY—Source, Van Cortland creek; system, gravity, pumping to reservoir; reservoir cap 36,955,779 gals; pumping engines, dy cap 1,584,000 gals; 122 hydrants; pipe 133.4 miles, 4 to 12 in dia; valves, 30 meters; quality of water good; pressure 80 to 180 pounds; waterworks owned by city; cost to construct \$150,000; ann expenses \$3,655. Supt. Orrin J. Loder. A 3,000,000 gal Gaunkill is being put in.

Pemfield, Monroe Co., population of town 2,845. Fire department—1 hand engine, 1 hose carriage; hose 315 ft; total membership 50, volunteers. Chief engineer, J. W. Jones. #

WATER SUPPLY—Not described; 2 reservoirs. #

Penn Yan, Yates Co., population 4,254; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder

truck, 3 hose carriages; hose, cotton good 3,000 ft; total ann expenses of department \$500; total membership 123, paid part time 3, volunteers 120; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, J. T. Parker. #

WATER SUPPLY—Source, outlet of Lake Kenka; system, direct pumping; water-power pumps, dy cap 150,000 gals; 16 hydrants; pipe ½ mile; valves; pressure 60 pounds; pipe and hydrants owned by village; cost to construct \$1,500. Supt. Calvin Russell, Sr.

Perkinstonville, Steuben Co., population est. 800; fire area 1 mile square; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, buckets, etc; 26 volunteer members. Foreman, J. C. Spencer.

WATER SUPPLY—Source, wells, cisterns and streams.

Perry, Wyoming Co., population 1,528; fire area 600 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 and 2½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,100 ft, rubber good 600 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total ann expenses of department \$500; total membership 110, volunteers; bell alarm. Chief engineer, G. H. Traver.

WATER SUPPLY—Source, creek. Town clerk, H. A. Cole.

Phelps, Ontario Co., population 1,400; buildings, wood and brick, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, fair 800 ft; 61 volunteer members. Chief engineer, Fred Baker.

WATER SUPPLY—Source, springs; system, gravity; pipe ¾ miles, 4 to 6 in dia; pressure 60 pounds; waterworks owned by company; cost to construct \$20,000. Supt. W. D. Norton.

Phenix, Oswego Co., population 1,468; fire area 600 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 3 hose carriages, siamese couplings used; hose, cotton good 1,000 ft, rubber inferior 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,600; total membership 30, volunteers; bell alarm. Chief engineer, Geo. Heel-ton.

WATER SUPPLY—Source, Oswego river; system, pumping to standpipe and direct; standpipe cap 200,000 gals; pumping engines, dy cap 2,000,000 gals; 38 hydrants; pipe 6½ miles, 8 to 4 in dia; 50 valves; pressure, domestic 75, fire 130 pounds; waterworks owned by company, cost to construct \$55,000, to date \$68,000; ann expenses \$3,000. Supt. Van R. Sweet; secy, J. I. VanDoren.

Piermont, Rockland Co., population 1,200; fire area 2 miles; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages, all kinds, 1 hose wagon; hose, cotton good 700 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,000; total ann expenses of department \$200; total membership 40. Chief engineer, S. Van Wagner.

Plattsburgh, Clinton Co., population 7,010; fire area 2,400 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 9 hose carriages; hose, cotton, rubber lined, good 3,100 ft, leather inferior 150 ft; value of fire department equipment \$10,000; total membership 230, volunteers; Gamewell alarm; 11 street boxes; 4 fire companies. Chief engineer, K. T. Botaford.

WATER SUPPLY—Source, 3 spring brooks; system, gravity; 2 reservoirs, cap 3,500,000 gals; 84 hydrants; pipe 30 miles, 2 to 12 in dia; 90 valves; abt 1,200 laps; pressure, domestic 45 to 50, fire 65 to 75 pounds; waterworks owned by village; cost to construct \$180,000; cost to date \$225,000; ann expenses \$3,500. Supt. Andrew Williams.

Port Byron, Cayuga Co., population 1,105; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, linen good 1,800 ft, inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$4,000; total membership 45, volunteers; bell alarm. Chief engineer, E. Homel.

WATER SUPPLY—Source, well; system, pumping to reservoir; reservoir cap 400,000 gals; pumping engine, dy cap 150,000 gals; 27 hydrants; pipe 3 miles, 4 and 6 in dia; 7 valves; pressure, domestic 85, fire 85 pounds; works owned by company; cost to construct \$12,000. Supt, E. Watson.*

Port Chester, Westchester Co., population 6,200; buildings, brick and wood, 2½ and 3 stories; fireworks ordinance; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 5 hose carriages, 1 hand extension ladder, 1 fire patrol; hose, cotton good 3,000 ft, inferior 100 ft, leather good 1,350 ft, inferior 250 ft; value of fire department equipment \$8,500; value of buildings occupied \$3,000; expenses of department for past year \$5,700; total membership 220, volunteers; electric alarm; 20 boxes and 8 bell strikers. Chief engineer, W. E. Lowden.

WATER SUPPLY—Source, river, cisterns (also Greenwich, Conn., waterworks); system, gravity; 2 reservoirs, cap 300,000,000 gals each; standpipe 1,250,000 gals; 60 hydrants; pipe 20 miles, 10, 8, 6 and 4 in dia; pressure 75 pounds; waterworks owned by company. Secy, John W. Diehl.

Port Ewen, Ulster Co., population 1,000; fire area ½ mile; buildings, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. No fire department.

Port Henry, Essex Co., population 2,436; fire area 300 acres; buildings, brick and wood, 2½ and 3 stories; wooden roofs permitted in fire limits by permission; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical engines, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,200 ft, rubber inferior 800 ft; total membership 110, volunteers. Chief engineer, F. E. Trombles.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoirs collecting 100,000 gals, distributing 550,000 gals; 55 hydrants; 9 miles of pipe, 4 to 10 in dia; 35 valves; pressure, domestic 40 to 125, fire 40 to 175 pounds; works owned by village; cost to construct \$50,000. Supt, Geo. C. Wheelock.

Port Jefferson, Suffolk Co., population 2,026; fire area 300 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, pump, pails, rope chairs, hooks; hose, cotton good 600 ft, inferior 100 ft, rubber good 100 ft; horses hired; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$400; total membership 78, volunteers; bell alarm. Chief engineer, and chairman of fire and water com, John E. Ovation.

WATER SUPPLY—Source, spring, cistern and harbor.

Port Jervis, Orange Co., population 9,327; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 5 hose carriages; hose, leather good 2,500 ft; value of fire department equipment \$8,000; value of buildings occupied \$12,000; total ann expenses of department \$500; total membership 250, volunteers; steam whistle alarm.*

WATER SUPPLY—Source, springs and brooke; system, gravity; 2 reservoirs, cap 284,000,000 gals; 153 hydrants; pipe 18 miles, 24 to 4 in; 72 valves; 1,000 taps; pressure 50 to 60 pounds; waterworks owned by company; original cost to construct \$120,000; expenses of construction to date \$225,000; ann expenses \$3,000. Supt, E. H. Ellis.

Port Leyden, Lewis Co., population 800; buildings, brick and wood, 1½ and 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, linen good 400 ft, leather inferior 300 ft; total membership

18, volunteers; bell alarm. Chief engineer, Chas. D. Zimmer.

WATER SUPPLY—Source, river and canal.

Port Richmond, Richmond Co. (See New Brighton.)

Port Washington, Queens Co., population 1,500; fire area 5 miles; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 2 hose wagons; hose, cotton good 500 ft, 6 hoses; value of equipment \$3,000; value of buildings occupied \$5,000; membership 75, volunteers; bell alarm. Foreman, Thomas Carman.

WATER SUPPLY—Source, river, ponds and cisterns. Town clerk, Samuel Hooper.

Potdam, St. Lawrence Co., population 4,040; fire area 2 square miles; mercantile buildings, brick and sandstone, 3 stories; private, stone, brick and wood, 2 stories; wooden roofs no. permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, linen good 2,000 ft, cotton good 3,000 ft, leather inferior 1,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$5,500; total ann expenses of department \$250; total membership 75, paid full time 1, volunteer members 35 or 40; steam whistle alarm; 3 fire companies. Chief engineer, J. W. Swift.*

WATER SUPPLY—Source, Racket river; system, pumping direct; pumping engine, dy cap 2,500,000 gals; hydrants 60; pipe 7½ miles, 10 to 4 in dia; 38 valves; 500 taps; pressure, domestic 55, fire 100 pounds; works owned by city; cost to construct \$47,000; ann expenses \$800. Supt, W. F. P. Sealy.

Poughkeepsie, Dutchess Co., population 23,000; fire area 2,580 acres; mercantile buildings, brick, 3 stories; private, brick, 2 1-2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 5 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 7 hose carriages, 1 hose wagon, slamsse couplings used; hose, cotton good 6,000 ft, inferior 250 ft; value of fire department equipment \$31,000; value of buildings occupied \$26,000; total ann expenses of department \$3,000; total membership 500, paid full time 3, paid part time 5, volunteers 450; bell alarm. Chief engineer, Lewis A. Thomson.

WATER SUPPLY—Source, Hudson river; system, pumping to reservoir through settling basin; reservoir cap 12,000,000 gals; 2 pumping engines, dy cap 5,000,000 gals; 369 hydrants; pipe 21 miles, 6 to 18 in dia; 2,439 taps; pressure 40 to 120 pounds; waterworks owned by city; cost to construct to date \$632,911.50; ann expenses \$24,267.48. Supt, Chas. E. Fowler.

Prattville, Greene Co., population 400; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted (a few iron roofs). Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft, poor 550 ft, linen poor 300 ft; total membership 17, volunteers. Chief, M. G. Mant.

WATER SUPPLY—Source not given; system, gravity; 1 reservoir; hydrants; pipe 1 mile, 6 in dia; waterworks owned by company. Supt, Martin Chamberlain.*

Pulaski, Oswego Co., population 1,800; fire area 450 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—2 hand engines, 4 chemical extinguishers, 2 hose carriages; hose, linen, rubber lined 1,800 ft, leather good 400 ft; value of fire department equipment \$5,000; value of buildings occupied \$4,000; total ann expenses of department \$500; total membership 32, volunteers; bell alarm; electric connection between engine and pump houses. Chief engineer, R. W. Box.*

WATER SUPPLY—Source, spring, brook; system, direct pumping; 1 reservoir; Holly pumping engine; 35 hydrants; pipe 4½ miles, 4 to 8 in dia; 8 valves; pressure, domestic 30, fire 80 to 100 pounds; waterworks owned by village; 225 taps; cost to construct \$28,800; to date \$32,000; ann expenses \$175. Supt, E. D. Fitch.

Ramapo, Rockland Co., population 250. Fire department—1 hand engine, 6 chemical extinguishers, 1 steam pump, 1 hose carriage. Chief engineer, G. B. Pierson.

WATER SUPPLY—Source, well, 1 reservoir.

Bandolph, Cattaraugus Co. population 1,201; fire area 800 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 2,000 ft, inferior 100 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,800; total ann expenses of department \$250; total membership 90, volunteer members; electric bell alarm; street boxes 8. Chief engineer, Geo. E. Seager.

WATER SUPPLY—Source, springs, in mountains south of city; system, gravity; reservoir cap 500,000 gals; hydrants 21; pipe 6 miles, 4 to 8 in; 14 valves; pressure, 70 to 98 pounds; waterworks owned by city; original cost to construct \$20,000 expenses of construction to date \$21,500. Supt, Chas. C. Sheldon.

Rensselaerville, Albany Co. population 300; fire area 40 acres; mercantile buildings, wood, 2 stories; private, wood, 1 1-2 stories; shingle roofs permitted. No organized fire department; ladders and pails; value of fire department equipment \$50.4

WATER SUPPLY—Source, wells and springs.*

Rhinebeck, Dutchess Co. population 1,800; buildings, brick and wood, 2 and 3 stories; tin roofs principally used; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, linen poor, 1,500 ft, rubber good 1,000 ft, leather good 400 ft, cotton good 200 ft; value of fire department equipment \$9,000; value of buildings occupied \$5,000; total ann expenses of department \$700; total membership 103; 2 engine companies, 1 hook and ladder company, 1 hose company. Chief engineer, John H. Brown.

WATER SUPPLY—Source, 26 disters and pond.

Richfield Springs, Otsego Co. population 1,800; fire area 1,000 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—20 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 500 ft, linen good 1,000 ft, inferior 300 ft; value of equipment \$2,500; value of buildings occupied \$1,000; 108 volunteer members; electric whistle alarm; 9 boxes. Chief engineer, W. F. Borland.

WATER SUPPLY—Source, spring and Allen's lake; system, gravity and pumping to reservoir; reservoir cap 12,000,000 gals; pumping engines, dy cap 1,000,000 gals; 39 hydrants; pipe 8 1-6 miles, 10 and 4 in dia; 32 valves; pressure 85 pounds; waterworks owned by city; cost to construct to date \$53,000; ann expenses \$1,000. Pres, George Monahan.

Riverhead, Suffolk Co. population 4,010; fire area 3-4 x 1 1/4 miles; mercantile buildings, wood and brick, 2 stories; private, wood, 2 1/2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton rubber lined good 1,600 ft, inferior 300 ft, linen inferior 100 ft, leather inferior 40 ft; value of fire department equipment \$6,000; value of buildings occupied \$3,200; total ann expenses of department \$400; volunteer members 100; bell alarm; 4 fire companies. Chief engineer, O. A. Terry.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 70,000 gals; pumping engines, dy cap 250,000 gals; hydrants 14; pipe 2 1/2 miles, 8 to 4 in; pressure 33 pounds; waterworks owned by company; cost to construct \$15,000. Pres, John R. Perkins.

Rochester, Monroe Co. population 140,000; fire area 11,000 acres; mercantile buildings, brick, wood and stone, 3 to 14 stories; private, wood, 1 1/2 to 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 2 chemical engines on wheels, 12 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 3 hose carriages, all kinds, 7 hose wagons, other apparatus, 1 fire patrol wagon, 2 supply wagons; hose, cotton good 12,000 ft, linen good 10,000 ft, inferior 1,000 ft; 64 horses, value \$250 each; value of fire department equipment \$110,000; value of buildings occupied \$180,000; total ann expenses of department \$200,000; total membership 155, paid full time 153; Gamewell alarm; street boxes 160. Chief engineer, James Malcom.

WATER SUPPLY—Source, Hemlock lake and Genesee river; system, gravity and pumping direct; 2 reservoirs, cap 80,000,000 gals; pumping engines, dy cap pump 7,000,000 gals; 2,454 hydrants; pipe 251 miles, 4 to 24 in dia; 2,848 valves; 26,970 taps; pressure, domestic 25, fire 85 to 100 pounds; waterworks owned by city; original cost to construct \$3,310,905; expenses of construction to April 1, 1893, \$9,354,215; ann expenses \$97,342. Supt, Emil Kulchling; T. J. Neville, clerk of board. (Now under construction a 15,000,000 gals per day pump.)

Rockaway Beach, Kings Co. population 2,500; mercantile buildings, wood, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 steam fire engines, 1 hook and ladder truck, 2 hose carriages, all kinds, 4 hose carts; hose, cotton good 3,500 ft; value of fire department equipment \$15,000; value of buildings occupied \$10,000; total membership 160, volunteers; bell alarm. Chief engineer, John A. Carle.

WATER SUPPLY—Not reported.

Rockville Centre, Queens Co. population 3,500; fire area 1 1/4 miles; mercantile buildings, brick and wood, 4 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted, tin used generally; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; value of fire department equipment \$1,300; value of buildings occupied \$1,800; total membership 80, volunteers; bell alarm; 2 fire companies. Chief engineer, Benjamin W. Coombs.

WATER SUPPLY—Source, wells and pumps for domestic purposes. The village will introduce a system for fire protection.*

Rome, Oneida Co. population 14,991; mercantile buildings, brick and stone, 4 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon, 1 supply wagon; hose, cotton good 5,500 ft, inferior 1,000 ft; 6 horses, value \$1,300; value of fire department equipment \$25,000; total ann expenses of department \$5,000; total membership 80, paid full time 7, paid part time 4, volunteers 70; telegraph alarm; 28 street boxes. Chief engineer, Andrew Brickner.

WATER SUPPLY—Source, Mohawk river; system, pumping to reservoir and direct; reservoir cap 10,000,000 gals; dy cap 5,000,000 gals; 189 hydrants; pipe 25 miles, 8 to 20 in dia; 190 valves; quality of water good; pressure, domestic 28, fire 65 pounds; works owned by city; cost to construct \$160,000; ann expenses \$3,500. Pres, S. Gillette; supt, T. S. Comstock.

Rondout, Ulster Co. (See Kingston.)

Roslyn, Queens Co. population 1,500; buildings, wood, 2 1/2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; value of buildings occupied \$2,500; value of fire department apparatus \$1,500; 50 members. Chief engineer, John F. Remsen.

WATER SUPPLY—Source, wells and ponds. Town clerk, Samuel Hooper.

Round Lake, Saratoga Co. population 1,000 buildings, wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hose carts, 1,000 feet of hose, 1 hose company. Chief, A. M. Waite.

WATER SUPPLY—Source, springs and brooks; system, pumping from reservoirs, cap 70,000 gals; tanks cap 70,000 gals; pumps, dy cap 30,000 gals; 15 hydrants; pipe 4 miles, 6 to 3 in dia; 15 valves; pressure 45 to 60 pounds; works owned by the Round Lake Association; cost to construct \$15,000; ann expenses \$200. Supt, Jno. D. Rogers.

Rouse's Point, Clinton Co. population 2,000; fire area 1,280 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,600 ft; value of department equipment \$1,500; value of buildings occupied \$2,500; membership 61, volunteers; steam whistle alarm; 1 hose company. Chief engineer, J. T. Wood.

WATER SUPPLY—Source, Lake Champlain; system, pump to standpipe; cap 148,000 gals; pumping engines, dy cap 2,000,000 gals; pipe 5 1/2 miles, 4

to 10 in dia; 64 hydrants; 38 valves; 250 taps; cost to construct \$28,000; ann expenses \$1,500. Supt. J. Pardy.

Moxbury, Delaware Co., population 600; fire area 1 mile sq; mercantile buildings, wood, 2 stories; brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$1,000; total expenses for past year \$300; total membership 25, all volunteers; bell alarm. Foreman, A. Cartwright, Jr.

WATER SUPPLY—Source, spring; system, gravity; reservoir cap 200,000 gals; 21 hydrants; pipe 3 miles, 8 to 4 in dia; pressure 100 to 108 pounds; works owned by company; cost to construct \$20,000; ann expenses \$150. Supt. Arthur F. Bouton.

Russell, Herkimer Co., population estimated 2,000; buildings, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells and cisterna.

Elye, Westchester Co., population 1,000; fire area 1,400 acres; buildings, wood, 3 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; siamese couplings used; hose, rubber good 500 ft; value of fire department equipment \$3,500; 1 building owned; 50 volunteer members; bell alarm. Chief elected by members, B. Sniffin.*

WATER SUPPLY—(See Port Chester waterworks.) 10 hydrants. Town clerk, John C. Halpin.

Sackett's Harbor, Jefferson Co., population 787; fire area 500 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; shingle roofs; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 3 hose carriages; hose, rubber good 15 ft, inferior 350 ft, cotton good 1,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department 100; total membership 35, 2 paid; bell alarm.*

WATER SUPPLY—Source, wells, reservoir and lake. Town clerk, B. H. Metcalf.*

Sag Harbor, Suffolk Co., population 2,000; fire area 3 miles in circumference; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 2,000 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann expenses of department \$800; 116 volunteer members; bell and whistle alarm. Chief engineer, Everett A. Carpenter.

WATER SUPPLY—Source, 4 wells; system, pump to reservoir, cap 240,000 gals, dy cap 500,000 gals; pumping engines; 32 hydrants; pipe 4½ miles, 10 to 4 in dia; pressure 50 pounds; works owned by company. Pres. Henry F. Cook; secy and mgr. John Sherry.

St. Johnsville, Montgomery Co., population 1,283; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft, inferior 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,000; ann expenses for past year \$100; 125 volunteer members. Chief, John McBride.*

WATER SUPPLY—Source, driven wells and springs; system, gravity; reservoir cap 1,000,000 gals; hydrants 52; pipe 5½ miles, 4 to 10 in; 38 valves; pressure 80 pounds; waterworks owned by city; original cost to construct \$25,000. Supt. Ambrose Nellis.

St. Regis Falls, Franklin Co., population 1,500; fire area 100 acres; buildings, wood, 1 to 3 stories; shingle roofs are used; fireworks ordinance. Fire department—1 hose carriage, 8 common ladders; hose, cotton good 600 ft, inferior 400 ft; value of equipment \$1,700; membership 30, volunteers; 1 fire company. Foreman, A. W. Atwater.

WATER SUPPLY—Source, river, pumping direct; 1 mile 4 in pipe.

Salamanca, Cattaraugus Co., population 5,000; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, 1 hose wagon, siamese couplings used; hose, cotton good 1,900 ft, rubber

good 500 ft; value of fire department equipment \$7,000; value of buildings occupied \$2,000; total ann expenses of department \$500; membership 125, volunteers; bell alarm. Chief elected by department, E. H. Carew.

WATER SUPPLY—Source, springs and surface water; system, gravity, pumping direct and to reservoir; pumping engines, dy cap 1,000,000 gals; 50 hydrants; pipe 7 miles, 2 to 10 in dia; 48 valves; 310 taps; pressure 75 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$1,172. Supt. A. H. Krieger.

Salem, Washington Co., population 1,300; fire area 2,500 acres; buildings, wood, 2 stories; slate roofs; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,500; total ann expenses of department \$250; 136 volunteer members; bell alarm. Chief elected by members, J. M. Williams.

WATER SUPPLY—Source, 13 wells. Village clerk, S. W. Russell, Jr.

Sandy Creek, Oswego Co., population 1,000; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 1,150 ft, poor 100 ft; value of fire department equipment \$600; value of buildings occupied \$800; total ann expenses of department \$75; total membership 40, volunteers; bell alarm; 2 fire companies. Chief engineer, Albert E. Shernan.

WATER SUPPLY—Source, spring, brooks; system, gravity; reservoir cap 500,000 gals; hydrants 20; pipe 8 miles, 8, 6 and 4 in dia; 23 valves; pressure 90 pounds; works owned by village; cost to construct \$17,044; ann expenses \$25. Supt. C. W. Colony.

Sandy Hill, Washington Co., population 3,500; mercantile buildings, brick, 3 stories; private, wood, 2½ stories; tin roofs principally used; fireworks ordinance. Fire department—1 steam fire engine, 3 hose carriages, 3 hose wagons; hose, cotton good 2,500 ft; value of equipment \$8,000; value of department buildings \$5,000; expenses for past year \$1,500; total membership 80, volunteers; 1 engine company, 3 hose companies. Chief engineer, P. G. Holbrook.

WATER SUPPLY—Source, Cold brook; system, pumping to standpipe; 2 pumping engines, dy cap 800,000 and 320,000 gals each; 46 hydrants; pipe 7 miles, 4 to 12 in dia; 30 valves; pressure, domestic 50, fire 50 to 100 pounds; Edison pressure recording gauge; cost to construct \$60,000, to date \$85,000; ann expenses \$5,200. Supt. G. Sherrill.

Saratoga Springs, Saratoga Co., population estimated 14,000; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted outside fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage, 1 hose wagon, 1 supply wagon; hose, cotton good 2,500 ft, inferior 2,000 ft; 4 horses, value \$800; value of fire department equipment \$18,000; value of buildings occupied \$17,000; total ann expenses of department \$9,151; total membership 20, paid full time 9, paid part time 29; Gamewell and telephone alarm; 23 street boxes. Chief engineer, E. J. Shadwick.

WATER SUPPLY—Source, springs; system, direct pumping; pumping engines, dy cap 8,000,000, 5,000,000 and 2,000,000 gals; 238 hydrants; pipe 34 miles, 3 to 20 in dia; 2,000 taps; pressure 65 to 95 pounds; works owned by city; cost to construct \$300,000; ann expenses \$12,500. Chairman of com. D. H. Noonan.

Saugerties, Ulster Co., population 4,237. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 500 ft, rubber good 1,000 ft; 100 volunteer members. Chief engineer, Wm. V. Burhans.*

WATER SUPPLY—Source, spring and Plattekill creek; system, gravity; 56 hydrants (5 private); pipe 12 miles, 4 to 16 in dia; valves; 160 taps; 5 meters; pressure 80 to 160 pounds; cost to construct \$118,000; works owned by company. Supt. F. M. Murphy.*

Savannah, Wayne Co., population 505; fire

area 100 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$1,000; 30 volunteer members; bell alarm; 1 fire company. Chief, W. C. Soule.

WATER SUPPLY—Source, wells; system, pumping to reservoir, cap 1,500,000 gals. Village clerk, O. C. Silver.

Sayville, Suffolk Co., population 1,000; fire area 3,200 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carts; hose, 1,500 ft; value of fire department equipment \$1,520; value of buildings occupied \$3,500; 120 volunteer members; bell alarm.*

WATER SUPPLY—Source, wells. (See Islip.)

Schaghticoke, Rensselaer Co., population 1,258; buildings, brick and wood, 2 stories. Fire department—force pumps, bell alarm. Chief engineer, E. E. Pinkheim.*

WATER SUPPLY—Source, river, cisterns and wells. City clerk, E. Burlingame.*

Schenectady, Schenectady Co., population 23,990; fire area 1 sq mile; mercantile buildings, brick and stone, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages; hose, cotton good 6,500 ft, inferior 800 ft; value of fire department equipment \$60,000; value of buildings occupied \$3,000; total ann expenses of department \$2,800; total membership 180, volunteers; Gamewell alarm; 18 street boxes; 5 hose companies. Chief engineer, Chas. J. Steiner.

WATER SUPPLY—Source, Mohawk river; system, direct pumping; pumping engines, dy cap 10,000,000 gals; 215 hydrants; pipe 22 miles; 188 valves; 1,950 taps; pressure, domestic 80, fire 100 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$90,000, to date \$187,000; ann expenses \$23,822. Supt, Geo. T. Ingersoll.

Schenevus, Otsego Co., population 635; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,500; total membership 60, volunteers; 1 hook and ladder company, 1 hose company. Chief engineer, O. F. Lane.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 10,000,000 gals; pipe 4 miles, 6 and 4 in; 14 hydrants; 15 valves; 75 taps; pressure 120 pounds; works owned by company; cost to construct \$20,000; ann expenses \$100. Supt, M. E. Baldwin.

Schoharie, Schoharie Co., population 1,028; fire area 2,650 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage, slamese couplings used; hose, leather good 700 ft, cotton good 500 ft; value of fire department equipment \$2,100; value of buildings occupied \$2,000; total ann expenses of department \$100; total membership 40, volunteers; bell alarm. Chief engineer, Cyrus Griffin.*

WATER SUPPLY—Source, lake; system, gravity; cap of reservoir 20,000,000 gals; 16 hydrants; pipe 3½ miles, 6 and 8 in dia; 7 valves; 124 taps; pressure 30 pounds; works owned by company; cost to construct \$20,000. Supt, Chas. C. Krome.

Schuylersville, Saratoga Co., population 1,825; fire area 200 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 2,500 ft, inferior 75 ft, rubber good 250 ft; value of equipment \$4,000; total membership 75, volunteers; 1 engine company, 1 hose company. Chief engineer, J. J. Cavanagh.

WATER SUPPLY—Source, canal and creek; system, pumping to reservoirs; 1 reservoir; 1 force pump; 5 hydrants. Chairman of com, Wm. S. Ostrander.

Scottsville, Monroe Co., population 900; buildings, brick and wood, 2 stories; wooden roofs per-

mitted; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon, slamese couplings used; hose, linen good 500 ft; value of fire department equipment \$2,000; total ann expenses of department \$300; total membership 60, volunteers; bell alarm. Chief engineer, I. W. Saylors.*

WATER SUPPLY—Source, creek, mill race. Town clerk, J. J. Weingard.

Sea Cliff, Queens Co., population 1,000; buildings, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 900 ft, cotton good 400 ft; value of equipment \$3,000; value of buildings occupied \$1,000; ann expenses \$1,200; total membership 50, 1 paid full time, 1 part, remainder volunteers; bell alarm. Chief engineer, Chas. Connor.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; reservoir cap 100,000 gals; standpipe cap 300,000 gals; pumping engines, dy cap 100,000 gals; hydrants 25; pipe 8 miles, 8 and 6 in; 40 valves; pressure, domestic 55 to 95 pounds, fire same; waterworks owned by company.

Seneca Falls, Seneca Co., population 6,168; mercantile buildings, brick, 2 to 4 stories; private, wood 2½ stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hand engine, 2 chemical engines on wheels, 18 chemical extinguishers, 3 hook and ladder trucks, 5 hose carriages, all kinds, 1 hose wagon, 1 protective wagon; hose, cotton good 3,000 ft; 3 hoses; total ann expenses \$4,200; total membership 175, paid part time 22, volunteers 147; 7 fire companies. Chief engineer, Horace N. Rumsey.

WATER SUPPLY—Source, Cayuga lake; system, pumping to standpipe, cap 42,000 gals; dy cap 3,000,000 gals; pipe 12 miles, 14 to 4 in dia; valves 40; pressure 40 pounds; owned by company. Supt, A. C. Martin.*

Sherburne, Chenango Co., population 1,000; fire area 1,200 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages, slamese couplings used; hose, rubber good 1,000 ft, inferior 800 ft; value of fire department equipment \$500; value of department buildings \$1,000; total ann expenses of department \$50; 70 volunteer members; bell alarm. Chief, W. F. Fish.

WATER SUPPLY—Source, brooks and springs; 2 miles distant; system, gravity; reservoir cap 31,000,000 gals; 24 hydrants; pipe 4 1-3 miles, 12 to 4 in dia; taps 150; valves 28; pressure 90 to 105 pounds; works owned by city; cost to construct \$45,000; ann expenses \$500. Supt, W. E. Davis.

Sherman, Chautauqua Co., population 785; fire area 640 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 700 ft, leather good 550 ft; value of fire department equipment \$1,000; total ann expenses of department \$100; total membership 48; whistle alarm. Chief engineer, C. H. Corbett.

WATER SUPPLY—Source, 3 creeks, 1 mill pond; 2 reservoirs, cap 15,550 barrels. Village clerk, F. J. Newell.

Sidney, Delaware Co., population 2,250; fire area 600 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hose carriage, 1 hose wagon, 1 hook and ladder truck; hose, cotton good 550 ft, inferior 60 ft, rubber good 300 ft; value of fire department equipment \$1,250; total ann expenses of department \$200; total membership 60, volunteers. Chas H. Sealey.

WATER SUPPLY—Source, springs and 2 creeks; system, gravity; reservoir cap 7,500,000 gals; hydrants 37; pipe 6½ miles, 4 to 10 in dia; pressure 100 pounds; waterworks owned by company; cost to construct \$33,000, to date \$38,000. Supt, Wm. E. Barker.

Silver Creek, Chautauqua Co., population 2,000; fire area 600 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 Silby steam fire engine, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,800 ft, inferior 200 ft; value of fire department

equipment \$4,000; value of buildings occupied \$3,500; total ann expenses of department \$700; total membership 95, paid part time 2, volunteers: private company 60 members, have 1 hook and ladder truck, 1 hose carriage and 1,500 ft good cotton hose; bell alarm; 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, Wm. S. Talcott.

WATER SUPPLY—Source, 2 creeks, Lake Erie; Worthington pump. (Water works contemplated.)

Silver Springs, Wyoming Co. (See Castle.)

Sing Sing, Westchester Co., population 9,352; fire area 560 acres; mercantile buildings, brick, 3 and 4 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 5 hose carriages, 12 hose couplings used; hose, cotton 1,000 ft, rubber good 400 ft, inferior 200 ft, leather fair 1,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$2,500; total ann expenses of department \$1,000; total membership 100, 2 paid; bell alarm. Chief elected by members, A. E. Smith.*

WATER SUPPLY—Source, reservoir fed by brook; system, gravity, pumping from reservoir; reservoir cap 11,710,000 gals; pumping engines, dy cap 2,000,000 gals; 100 hydrants; pipe 14 miles, 4 to 18 in dia; 75 valves; pressure 35 to 11 pounds; waterworks owned by village; cost to construct \$180,000; ann expenses \$4,000. Supt. S. G. Ellegood.

Skanateles, Onondaga Co., population 1,559; fire area 640 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,350 ft, leather good 200 ft; value of fire department equipment \$3,800; value of buildings occupied \$8,000; total membership 50; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Geo. C. Bench.

WATER SUPPLY—Source, Skanateles lake; system, pump to standpipe, cap 73,000 gals; pumping engines, dy cap 1,000,000 gals; 40 hydrants; pipe 6 miles, 4, 6, 8 in dia; 26 valves; 125 taps; pressure, domestic 75, fire 80 to 100 pounds; waterworks owned by company; cost to construct \$40,000; ann expenses \$4,000. Supt. John A. Burton.

Southampton, Suffolk Co., population 1,900; fire area 5,000 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,400 ft, inferior 100 ft, rubber good 200 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,500; total ann expenses of department \$500; total membership 106, volunteers; 3 fire companies; bell alarm. Chief engineer, Benj. H. Bishop.

WATER SUPPLY—Source, wells; system, pumping in to compression tanks; tanks cap 27,000 gals; 2 pumping engines, dy cap 750,000 gals each; hydrants 45; pipe 8 miles, 8, 6 and 4 in dia; 100 valves; 175 taps; pressure, domestic 60, fire 100 pounds; waterworks owned by company; cost to construct \$60,000; ann expenses \$2,500. Pres of com. J. H. Kilbreth.

South Nyack, Rockland Co., (See Nyack.)

Southold, Suffolk Co., population 1,200; fire area 7 sq miles; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck; hose, cotton good 275 ft; value of fire department equipment \$500; value of buildings occupied \$1,200; 50 volunteers; bell alarm. Chief engineer, Wm. A. Prince.

WATER SUPPLY—Source, wells and cisterns. Town clerk, L. W. Korn.

Springfield Centre, Otsego Co., population 208; fire area 65 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$300; total membership 20, volunteers; bell alarm; 1 fire company. Chief engineer, Clark Ellsworth.

WATER SUPPLY—Source, wells.*

Spring Valley, Rockland Co., population 1,040; fire area 640 acres; buildings, wood, 2½ stories; shingle roofs permitted. Fire department—2 hand engines, 1 hose carriage, 6 fire buckets, hooks, etc; hose, cotton good 450 ft, leather good 200 ft, inferior 50 ft; value of fire department equipment \$2,500; value of buildings occupied \$600; total ann expenses of department \$75; membership 40, volunteers; bell alarm. Chief elected by department, Thomas Walker.

WATER SUPPLY—Source, well; system, pump to reservoir, cap 50,000 gals; pumping engines, dy cap 20,000 gals; 2 hydrants, 1 mile of pipe, 6 in dia; 4 valves; 6 taps; pressure 48 pounds; works owned by company; cost \$10,000. Supt. P. B. Lespinasse.*

Springville, Erie Co., population 2,000; fire area 75 acres; mercantile buildings, brick, and wood, 2 and 3 stories; private, wood, and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 extension ladders, 2 hose carriages, 1 hose wagon; hose, rubber good 1,500 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,200; total ann expenses of department \$200; 40 volunteer members; electric bell alarm; 6 street boxes; 1 hose company. Chief engineer, Geo. H. Barker.

WATER SUPPLY—Source, springs; system, direct pumping; pumping engines, dy cap 750,000 gals; 65 hydrants; pipe 7 miles, 4 to 12 in dia; pressure 40 to 100 pounds; cost to construct \$16,000. Supt. Jas. A. Shuttlesworth.

Stamford, Delaware Co., population 819; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$1,800; value of buildings occupied \$1,200; total ann expenses of department \$200; total membership 44, volunteers; electric bell alarm; 2 hose companies. Chief engineer, E. L. Seelye.*

WATER SUPPLY—Source, head waters of Delaware river; system, gravity; 18 hydrants; pipe 4 miles, 4 to 8 in dia; 150 taps; pressure 60 pounds; works owned by company; cost to construct \$28,000, to date \$30,000; ann expenses \$275. Supt. Johnson Hamilton.

Stapleton and Edgewater, Richmond Co., population estimated 13,000; fire area 6 miles; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—5 steam engines, 4 chemical extinguishers, 3 hook and ladder trucks, 8 hose carriages, 2 supply wagons; hose, rubber good 4,200 ft, inferior 400 ft; 14 horses, value \$6,500; value of equipment \$22,500; expenses for past year \$47,000; total membership 525, volunteers; bell alarm. Chief, James H. Lestrangle.

WATER SUPPLY—Source, driven wells; system, pumping to reservoir and standpipe; reservoir cap 4,000,000 gals; standpipe cap 100,000 gals; pumping engines, 2 Deane 2,500,000 gals, 1 Worthington 1,500,000 gals; 335 hydrants; pipe 50 miles, 20 to 4 in dia; 150 valves; pressure, domestic 60, fire 80 pounds; works owned by company. Supt. J. B. Newhall.

Stillwater, Saratoga Co., population 1,500; buildings, brick and wood, 2 and 3 stories; wooden roof permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hose carriage; hose, linen good 1,000 ft; value of fire department equipment \$6,000; value of buildings \$2,000; expenses in 93 \$1,000; 60 volunteer members; bell alarm. Chief engineer, Peter McCulloch.

WATER SUPPLY—Source, Hudson river and canal. Village clerk, M. J. Hewitt.

Suspension Bridge (see Niagara Falls).

Syracuse, Onondaga Co., population 100,000; fire area 900 acres; mercantile buildings, brick and stone, 2 to 6 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines (1 reserve), 2 chemical engines on wheels (1 reserve), 12 chemical extinguishers, 1 hook and ladder truck, 2 aerial trucks (1 reserve), 8 hose carriages, all kinds (1 reserve), 2 hose wagons, 1 Hale 55 ft water tower; hose, good 20,000 ft, fair 3,300 ft; 41 horses; total ann expenses of department \$100,000; total membership 83, paid full time; Gamewell alarm;

street boxes 105. Chief engineer, Henry Reilly chairman of commissioners, H. S. White.

WATER SUPPLY—Source, Onondaga creek and springs; system, partly gravity, mainly pumping to reservoir; reservoir, cap 210,000,000 gals; pumping engines, dy cap 18,000,000 gals; 496 hydrants; pipe 50 miles, 4 to 24 in dia; 220 valves; iron and cement service pipe; 4,216 taps; pressure, domestic 35 to 42, fire same pounds; water-works owned by city; original cost to construct \$7,850,000; ann expenses \$32,525. Chairman of com, Henry J. Mowry; supt, D. H. Bruce. (On Jan 1st 1893 the city took possession of the plant of the Syracuse water company, and now is engaged in constructing a gravity system, with Skaneateles lake a source, the city has been authorized to expend \$3,000,000.)

Tarrytown, Westchester Co., population 3,950; buildings, brick and wood, 2 and 3 stories; shingle roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages, 4 hose carts; hose, cotton good 3,100 ft, poor 400 ft; value of fire department equipment \$7,250; value of buildings occupied \$8,750; total ann expenses of department \$500; 175 volunteer members; 5 fire companies; whistle and bell alarm. Chief, Isaac B. Henderson.

WATER SUPPLY—Source, wells; system, pumping to reservoir and standpipe; 2 reservoirs, cap 1,450,000 gals; pumping engines, dy cap 2,500,000 gals; 95 hydrants; pipe 17.45 miles, 4 to 16 in dia; 126 valves; 529 taps; pressure 135 pounds; ann expenses \$5,000; works owned by company; cost to construct \$155,000. Pres of com, D. D. Tollman; supt, D. S. Merritt.

Theresa, Jefferson Co., population 1,100; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, rubber good 50 ft, cotton good 600 ft; total membership 40 volunteers; bell alarm. Chief engineer, Geo. B. Schwarz.

WATER SUPPLY—Source, river, wells and cisterns.

Thousand Island Park, Jefferson Co., population 2,000; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, St. Lawrence river; system, pump to tank, cap 50,000 gals; pumping engines; pipe 1 mile; taps 150; works owned by company; cost to construct \$5,000. Supt, D. A. B. Bailey, Findlay, O.

Ticonderoga, Essex Co., population 2,475; fire area 100 acres; mercantile buildings, brick, 2 to 4 stories; private, wood, 1½ and 2 stories; metal roofs; no fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, 1 hose wagon, siamese couplings used; hose, cotton good 750 ft, linen rubber lined good 1,050 ft, inferior 600 ft; value of fire department equipment \$3,750; value of buildings occupied \$1,000; 75 volunteer members; bell alarm. Chief engineer, C. E. Gifford.

WATER SUPPLY—Source, Lake George; system, gravity; reservoir cap 2,000,000 gals; 86 hydrants; pipe 5 miles, 4 to 12 in dia; 14 valves; pressure 180 pounds; works owned by city; cost to construct \$50,000; cost to date \$70,000; ann expenses \$1,200. Supt, W. Lamson.

Tivoli, Dutchess Co., population 1,350; fire area 820 acres; buildings, wood, 2 stories. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft, inferior 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,000; ann expenses \$500; 71 volunteers; bell alarm.

WATER SUPPLY—Source, river and creek, 4 large cisterns. Village clerk, F. H. Burnet.

Tonawanda, Erie Co., population 7,145; mercantile buildings, brick, 3 stories; private, wood and brick, 2 stories; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 2 hook and ladder trucks, 6 hose carriages, all kinds, siamese couplings used; hose, linen good 3,500 ft, leather good 1,000 ft; total ann expenses of department \$3,000; 215 volunteer members; telegraph alarm. Chiefs appointed by department, J. O. Day, M. J. Wattough.*

WATER SUPPLY—Source, Niagara river; sys-

tem, direct pumping; pumping engines, dy cap 4,000,000 gals; 321 hydrants; pipe 23 miles, 4 to 12 in dia; 24 meters; pressure, domestic 40, fire 80 to 125 pounds; works owned by company; cost to construct \$300,000. Pres of com, Benj. L. Rand; supt, Henry M. Faies.*

Tottenville, Richmond Co., population 2,500; fire area 1,200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 300 ft; value of fire department equipment \$3,100; value of buildings occupied \$3,000; total ann expenses of department \$500; 75 volunteer members; 1 engine company, 1 hook and ladder company. Chief engineer, David R. Robins. (1 light steamer, combination cart contemplated.)

WATER SUPPLY—Source, wells and cisterns.*

Troy, Rensselaer Co., population 65,000; fire area 1,440 acres; mercantile buildings, brick, iron and stone, 2 to 5 stories; private, brick and stone, 2 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—10 steam fire engines, 18 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 1 hose carriage, 16 hose wagons, siamese couplings used; hose, cotton good 16,000 ft, inferior 4,000 ft; 25 horses; value of fire department equipment \$80,000; value of buildings occupied \$150,000; total ann expenses of department \$58,500; total membership 600, paid full time 36, volunteers 564; Gamewell alarm; 77 street boxes. Chief engineer, Patrick Byron.

WATER SUPPLY—Source, lakes and Hudson river; system, gravity and pumping to reservoir, cap 649,000,000 gals; 2 pumping engines, dy cap 8,500,000 gals; 717 hydrants; pipe 58 miles, 4 to 30 in dia; 1,142 valves; pressure 40 to 100 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$1,348,481.75. Pres of com, Samuel O. Gleason; supt, Richard F. Hall.

Trumansburgh, Tompkins Co., population 1,211. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 1,000 ft, rubber good 400 ft; total membership 63, volunteers. Chief engineer, W. I. Sherwood.

WATER SUPPLY—Source, creek; 8 reservoirs, cap 10,000 gals each. Town clerk, O. P. Osborn.

Tuxedo Park, Orange Co., est population 1,200.

WATER SUPPLY—Source, Tuxedo lake; system, pumping to tank, cap 74,000 gals; pumping engines, dy cap 3,000,000 gals; 30 hydrants; pipe 10 miles, 12 to 4 in dia; pressure 150 pounds; works owned by Tuxedo Park Association. Pres, P. Lorillard; supt, J. Harding.*

Unadilla, Otsego Co., population 1,500; fire area 1,500 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,500; total ann expenses of department \$700; total membership 80, volunteers; bell alarm. Chief engineer, W. Curtis.

WATER SUPPLY—Source, natural springs, artesian wells and brook; system, gravity; reservoir cap 5,000,000 gals; 40 hydrants; pipe 2 miles; taps 41; pressure 64 to 86 pounds. Supt, D. H. Loomis.

Union, Broome Co., population 821; fire area 640 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, linen good 850 ft, inferior 150 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total ann expenses of department \$175; total membership 46, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Charles A. VanHorn.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 900,000 gals; hydrants 30; pipe 6 miles, 8, 6 and 4 in; 14 valves; 220 taps; pressure, domestic 48, fire 48 pounds; waterworks owned by company; cost to construct \$24,800, to date \$27,000; ann expenses \$125. Supt, F. C. Reynolds, Moravia, N. Y.

Union Springs, Cayuga Co., population 1,068.

Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; 1,000 ft hose; 109 volunteer members. Chief engineer, R. W. Tate.*

WATER SUPPLY—Source, springs, ponds, cisterns, wells, reservoir. Town clerk, E. M. Hart.*

Upper Nyack, Rockland Co. (See Nyack.)

Utica, Oneida Co., population 45,000; fire area 100 acres; mercantile buildings, brick and wood, 2 to 7 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted. Fire department—5 steam fire engines, 1 chemical engine, 8 chemical extinguishers, 1 hook and ladder truck, 1 hose reel, 4 hose wagons; hose, cotton good 9,800 ft, inferior 1,000 ft; 22 horses, value \$4,400; value of fire department equipment \$121,652; value of buildings occupied \$58,200; total membership 71; paid full time 22, paid part time 50; electric bell alarm; 68 street boxes; 6 fire companies. Chief engineer, Wesley Dunbley.*

WATER SUPPLY—Source, surface water and springs; system, gravity; reservoirs cap 500,000-000 gals; 410 hydrants; pipe 70 miles, 4 to 24 in dia; 4,400 taps; 3,700 meters; pressure 30 to 85 pounds; waterworks owned by company. Supt, Chas. W. Pratt.

Valatie, Columbia Co., population 1,437; buildings, brick and stone, 1½ to 4 stories; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber lined good 950 ft; 40 volunteer members. Chief engineer, Abram Mexted.*

WATER SUPPLY—Source, creek; 1 cistern, 1 hydrant, 2 force pumps.*

Waddington, St. Lawrence Co., population 900; fire area, 600 acres; mercantile buildings, brick and wood, 1½ and 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 15 chemical extinguishers, 1 hose carriage; hose, rubber good 400 ft, cotton 300 ft; value of fire department equipment \$950; value of buildings occupied \$600; total membership 40, volunteers; bell alarm; 1 fire company. Chief engineer, John W. Forsythe.

WATER SUPPLY—Source, St. Lawrence river and wells.

Walden, Orange Co., population 2,200; fire area 1,053 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, 1 jumper, siamese couplings used; hose, cotton good 1,150 ft, rubber good 300 ft, inferior 800 ft; value of fire department equipment \$8,000; value of buildings occupied \$6,000; total ann expenses of department \$750; 108 volunteer members; bell alarm; 3 fire companies. Chief elected by members, Samuel McKee.*

WATER SUPPLY—Source, wells; system, pump to standpipe; cap 71,150 gals; pumping engines, dy cap 1,400,000 gals; 39 hydrants; pipe 4½ miles, 10 to 4 in dia; 26 valves; 150 taps; pressure 70 to 100 pounds; works owned by city; cost \$30,000; ann expenses \$2,400. Supt, C. D. Wooley.

Walton, Delaware Co., population 3,000; fire area 1 sq mile; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 2,000 ft, inferior 400 ft; value of equipment \$4,000; value of buildings occupied \$12,000; total ann expenses of department \$500; total membership 100, volunteers; bell alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, J. H. Brown.*

WATER SUPPLY—Source, brooks and mountain streams; system, gravity; reservoir cap 4,000,000 gals; 70 hydrants; pipe 15½ miles, 10, 8, 3, 4 in dia; valves; quality of water fine; pressure 90 pounds; works owned by company; cost to construct \$75,000; ann expenses \$150. Supt, W. A. Shepard.

Wappingers Falls, Dutchess Co., population 4,600; fire area 1½ sq miles; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 to 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 600 ft, rubber good 900 ft, leath-

er good 400 ft; value of buildings occupied \$8,000; total membership 70, volunteers; bell alarm. Chief engineer, Thomas Garrigan.*

WATER SUPPLY—Source, not given; system, pumping to reservoir; reservoir cap 153,000 gals; dy cap 98,000 gals per hour; pipe, 8 and 6 in dia; quality of water good; works owned by Garner & Co. Pres, Joseph Jones.*

Warrensburgh, Warren Co., population 893; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—chemical extinguishers; hose, linen 1,000 ft.*

WATER SUPPLY—Source, brooks, 2 miles distant; system, gravity; hydrants 7; pipe 7 miles, 4 and 6 in dia; 7 valves; quality of water good; pressure 110 pounds; works owned by company; cost to construct \$5,000, to date \$7,000; ann expenses \$50. Supt, Ira Cole.

Warsaw, Wyoming Co., population 3,500; fire area 400 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500; value of fire department equipment \$2,000; value of department buildings \$5,000; 70 volunteer members; bell alarm. Chief, H. L. Burr.

WATER SUPPLY—Source, springs; system, gravity; 3 reservoirs, cap 1,000,000 gals; 60 hydrants; pipe 10 miles; pressure 100 pounds; works owned by company; cost to construct \$40,000. Supt, E. H. Morris.

Warwick, Orange Co., population 1,537; mercantile buildings, brick, 3 stories; private, wood, 2 and 3 stories. Fire department—1 hose carriage, 2 jumpers, siamese couplings used; hose, cotton good 700 ft, leather good 400 ft; value of fire department equipment \$1,200; 3 rooms used; total ann expenses of department \$100; 50 volunteer members. Chief elected by members, B. F. Vail.*

WATER SUPPLY—Source, mountain stream; system, gravity; cap of 2 reservoirs 48,000,000 gals; 36 hydrants; pipe 25,091 ft, 3 to 10 in dia; 200 taps; pressure 72 pounds; works owned by village; cost to construct \$40,000; ann expenses \$200. Supt, W. A. Hulke.

Waterford, Saratoga Co., population estimated 4,000; area 50 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 3 hose carriages; hose, good 2,100 ft; 1 building used; total membership 70, 2 paid; bell alarm. Chief elected by company, appointed by trustees, W. F. Holyroyd.*

WATER SUPPLY—Source, Hudson river; system, pumping to reservoir and direct; reservoir cap 275,000 gals; pumping engines, dy cap 1,000,000 gals; 64 hydrants; pipe 8 1-2 miles, 4 to 12 in dia; 70 valves; 511 taps; pressure, domestic 75, fire 150 pounds; works owned by company; cost to construct \$75,000; cost to date \$80,000; ann expenses \$3,000. Supt, D. B. McCarthy.

Waterloo, Seneca Co., population 5,420; buildings, brick and wood, 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 7 chemical extinguishers, 6 hose carriages, 1 patrol carriage; hose, rubber good 300 ft, cotton good 3,000 ft; value of buildings \$30,000; 380 volunteer members; independent hydrant hose 20 men. Chief engineer, P. McCue.

WATER SUPPLY—Source, Seneca river; system, pumping to standpipe and direct; standpipe cap 175,000 gals; reservoir cap 1,000,000 gals; pumping engines, dy cap 2,000,000 gals; 60 hydrants; pipe 10 miles, 4 to 14 in dia; 35 valves; 400 taps; pressure, domestic 40, fire 80 to 90 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct \$120,000; ann expenses \$2,400. Supt, Geo. Clark.

Watertown, Jefferson Co., population 14,725; fire area 2,500 acres; mercantile buildings, brick, 5 and 6 stories; private, wood and brick, 2 and 3 stories; slate and tin roofs; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 7 hose carriages, siamese couplings used; hose, cotton good 4,500 ft, inferior 1,500 ft; 6 horses; value of fire department equipment \$15,000; value of buildings occupied \$18,000, 2 rented, ann rent \$700, value \$9,000; expenses in 1890, \$2,400; 144 volunteer

members; telegraph alarm; 19 street boxes. Chief engineer, J. W. Phippen.

WATER SUPPLY—Source, Black river; system, pumping to reservoir; reservoir cap 6,000,000 gals; pumping engines, dy cap 4,500,000 gals; 203 hydrants; pipe 23½ miles, 4 to 16 in dia; 189 valves; 24 meters; pressure 40 to 100 pounds; waterworks owned by city; cost to construct \$300,000; ann expenses \$14,000. Supt, Alphonse Salisbury.*

Waterville, Oneida Co., population 2,024; buildings, wood and brick, 1 to 4 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose sleigh; hose, cotton good 1, 650 ft, inferior 100 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total ann expenses of department \$200; membership 75, 3 paid; bell alarm. Chief, E. A. Wheeler.

WATER SUPPLY—Source, creek; system, gravity; reservoirs cap 20,000,000 gals; 49 hydrants; pipe 8 miles, 10 to 6 in; 37 gate valves; 269 taps; pressure 80 pounds; works owned by city; cost to construct to date \$67,000; ann expenses \$400. Supt, W. J. Eastman.

Watkins, Schuylcr Co., population 2,604; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,300 ft; total membership 100, volunteers; bell alarm. Chief engineer, Geo. O. Norman.*

WATER SUPPLY—Source, lake, springs and wells; system, gravity and pumping to reservoir, cap 1,500,000 gals; pumping engines, dy cap 1,000,000 gals; 115 hydrants; pipe 35 miles, 6 to 4 in dia; 119 taps; pressure, domestic 95, fire 100 pounds; works owned by village; cost to construct \$75,000; ann expenses \$1,500. Supt, Chas. Dennis.

Waverly, Tioga Co., population 4,123; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories. Fire department—1 hook and ladder truck, 6 hose carriages; siamese couplings used; hose, cotton good 2,500 ft, inferior 500 ft; value of fire department equipment \$10,000; expenses for past year \$800; 152 volunteer members; electric alarm. Chief elected by department, S. C. Smith.

WATER SUPPLY—Source, springs; system, gravity; reservoirs cap 130,000,000 gals; 37 hydrants; pipe 12 miles, 12 to 3 in dia; 47 valves; 466 taps; quality of water good; pressure 88 to 90 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$1,890. Supt, A. J. Vanatter.

Wayland, Steuben Co., population 900; fire area 640 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1½ stories; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$2,200; value of buildings occupied \$1,000; total ann expenses of department \$200; 44 volunteer members; bell alarm. Chief engineer, Henry L. Moore.*

WATER SUPPLY—Source, wells. Village clerk, P. H. Zimmerman.*

Woodport, Cayuga Co., population 1,750; area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages; siamese couplings used; hose, cotton good 2,000 ft; value of fire department equipment \$8,500; total ann expenses of department \$200; membership 70, 2 paid; bell alarm. Chief elected by members, H. D. Brewster.

WATER SUPPLY—Source, canal and creek, reservoir.

Wellsville, Allegany Co., population 3,435; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine (in reserve), 1 hook and ladder truck, 3 hose carriages; hose, linen good 3,000 ft; 100 volunteer members. Chief engineer, William C. Clark.*

WATER SUPPLY—Source, Genesee river and mountain stream; system, gravity and direct pumping; reservoir cap 6,000,000 gals; pumping engines, dy cap 1,500,000; 51 hydrants; pipe 53-10 miles, 4 to 10 in dia; 210 taps; 28 valves; pressure

75 pounds; waterworks owned by company; cost to construct \$50,000. Pres, James Maiken; supts, Simmons and Vorhees.*

West Brighton, Richmond Co. (See New Brighton.)

Westfield, Chautauque Co., population 2,800; fire area 800 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber 500 ft, leather good 200 ft, cotton 1,144 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,800; total ann expenses of department \$350; total membership 66, volunteers; bell and whistle alarm. Chief engineer, J. W. Pickett.

WATER SUPPLY—Source, springs; system, gravity; 12 hydrants; pipe 1½ miles, 4 and 6 in dia; pressure 15 pounds; waterworks owned by village; cost to construct \$6,000; ann expenses \$100. Pres, F. B. Brewer.*

Westmoreland, Oneida Co., population 400; fire area 200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical extinguisher, 1 hose carriage, ladders, hooks, etc.; hose, cotton good 50 ft, linen good 700 ft; value of fire department equipment \$1,000; total membership 40, volunteers; bell alarm; 1 fire company. Chief engineer, G. M. Flower.

WATER SUPPLY—Source, creek and wells. Town clerk, I. B. Hughes.*

West Nyack, Rockland Co. (See Nyack.)

West Point, Orange Co., population 1,800; buildings, brick, stone and wood, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft; 4 horses owned by U. S. Government; membership, all U. S. employees or enlisted men; electric alarm; 5 boxes. Chief, Post Quartermaster, Wm. H. Miller.

WATER SUPPLY—Source, mountain stream; system, gravity; 4 reservoirs, cap 58,000,000 gals; 18 hydrants; pipe 7½ miles, 4 to 12 in dia; 11 valves; pressure, domestic 30, fire 70 pounds; waterworks owned by U. S. Government; ann expenses \$1,000. Supt, Capt. Jas. L. Lush. (An additional reservoir of 40,000,000 gals cap will be built.)

West Troy, Albany Co., population 12,987; fire area 856 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 3 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 3 hose wagons; hose, linen good 5,150 ft, inferior 3,000 ft; 3 horses, value \$750; value of fire department equipment \$17,950; value of buildings occupied \$23,000; total ann expenses of department \$13,150; total membership 152, paid full time 4, paid part time 3, volunteers 145; bell alarm; 1 hook and ladder company, 4 hose companies. Chief engineer, Lewis W. Smith.

WATER SUPPLY—From Green Island Water Co; 100 hydrants; pipe 14 miles, 4 to 16 in dia; 1,039 taps; pressure 75 pounds; Edison pressure recording gauge; works owned by company; cost to construct to date \$300,000; ann expenses \$5,700. Supt, C. M. Stover.

Whitehall, Washington Co., population 4,564; fire area 3,943 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2 and 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 9 hose carriages, siamese couplings used; hose, linen good 1,000 ft, rubber good 8,250 ft, inferior 600 ft; value of fire department equipment \$18,000; value of 4 buildings occupied \$8,000; total ann expenses of department \$784; total membership 150, paid 2; bell alarm. Chief engineer, Chas. K. Grant.*

WATER SUPPLY—Source, springs and creek; system, pumping to reservoir; reservoir cap 5,500,000 gals; pumping engines, dy cap 1,500,000 gals; 53 hydrants; pipe 9 miles, 4 to 12 in dia; 48 valves; 79 meters; pressure, domestic 110, fire 115 pounds; waterworks owned by village; cost to construct

\$76,000; ann expenses \$5,000. Pres. O. F. Davis; supt. C. M. Hotchkiss.

White Plains, Westchester Co., population 6,000; fire area 3 miles square; mercantile buildings, wood and brick, 2 to 4 stories; private, wood, 2 stories and attic; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages, 1 hose wagon; hose, rubber good 2,550 ft, leather inferior 500 ft; value of fire department equipment \$3,800; value of buildings occupied \$8,000; ann expenses \$500; total membership 152; volunteers; Gamewell alarm; 2 engine companies, 1 hook and ladder company. Chief engineer, John T. Rehill.*

WATER SUPPLY—Source, caisson and brick wells; system, pumping to standpipe and direct; standpipe cap 189,000 gals; pumping engines, dy cap 2,000,000 gals; 112 hydrants; pipe 9 miles, 4 to 12 in dia; 65 valves; 781 taps; pressure, domestic 85, fire 150 pounds; waterworks owned by company; cost to construct \$125,000, cost to date \$150,000; ann expenses \$5,000. Supt. E. Southerland.

Whitesboro, Oneida Co., population 2,000; mercantile buildings, brick and wood 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton fair 900 ft, leather fair 200 ft; value of fire department equipment \$5,500; value of buildings occupied \$2,000; total ann expenses of department \$400; total membership 53, paid part time 1, volunteers 51; bell alarm; 2 fire companies. Chief engineer, G. E. Dennison.

WATER SUPPLY—Source, springs; system, gravity; 1 hydrant; pipe 3 miles; 44 taps; pressure 30 lbs; waterworks owned by L. L. Wright.

Whitestone, Queens Co., population 2,808; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 double-tank chemical engine on wheels, 1 hook and ladder truck, buckets; hose, rubber good 200 ft, inferior 50 ft; value of fire department equipment \$2,300; value of buildings occupied \$2,500; total membership 52; bell alarm. Chief engineer, Thos. A. Harris.*

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct, cap 250,000 gals; pumping engines, dy cap 1,000,000 gals; 82 hydrants; pipe 10½ miles, 4 to 12 in dia; pressure, domestic 35 to 45, fire 75 to 100 pounds; works owned by village, cost \$75,000; ann expenses \$3,000. Supt. G. A. Roullier.

Whiteville, Allegany Co., population 400; mercantile buildings, brick and wood, 2 stories; private, wood, 2½ stories; wooden roofs are permitted; no fireworks ordinance; causes of fire not investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 625 ft, poor 75 ft; 20 volunteer members; bell alarm. Chief, A. H. Halsey.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 32,000 gals; 10 hydrants; pipe 1½ miles, 6 and 3 in; 3 valves; 50 taps; works owned by company; cost to construct \$3,500. Pres and supt, J. B. Wiley.

Whitney's Point, Broome Co., population 919; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton good 800 ft, rubber inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of depart \$250; total membership 75; volunteers; bell and whistle alarm. Chief engineer, Jno. P. Wheeler.

WATER SUPPLY—Source, river and 6-inch driven wells.

Willets Point, Queens Co., population 650; fire area 136 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 1,200 ft, rubber good 400

ft, inferior 200 ft; value of equipment \$3,000; value of buildings occupied \$2,000; total membership 350; bugle alarm. Edgar Jadwin, and Lieut Q. M.

WATER SUPPLY—Source, Flushing waterworks; 19 hydrants; pressure, domestic 60, fire 150 pounds; ann expenses \$3,000. Supt, Lieut Jadwin.

Williamsville, Erie Co., population 800; fire area 640 acres; buildings, wood, 1½ to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 2 hose couplings used; hose, linen good 500 ft, leather good 100 ft, inferior 400 ft; value of fire department equipment \$2,000; total ann expenses of department \$25; total membership 60, volunteers; bell alarm. Chief engineer, S. A. Westland.

WATER SUPPLY—Source, creek; 2 reservoirs, dy cap 750 barrels.

Windham, Greene Co., population 1,236; buildings, wood, 2 stories; wooden roofs permitted. No organized fire department—3 hand engines, 2 hose couplings used; hose, leather good 450 ft, inferior 200 ft; value of fire department equipment \$800; value of buildings occupied \$50.

WATER SUPPLY—Source, creeks, wells and mill race. Town clerk, A. P. Roach.

Wolcott, Wayne Co., population 1,800; mercantile buildings, brick, 2 and 3 stories; private, wood, 1½ stories; fireworks ordinance. Fire department—14 horse-power engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500; value of fire department equipment \$2,500; value of building occupied \$800; total membership 85, volunteers; bell alarm. Chief engineer, Henry A. Gravae.

WATER SUPPLY—Source, pond and cisterns; 5 reservoirs, cap 300 to 500 bbls each.

Worcester, Otsego Co., population 1,200; fire area 150 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—230 ft ladder, 1.40 ft extension ladder, 1 hose carriage; hose, cotton rubber lined good 650 ft; value of equipment \$1,000; total ann expenses of department \$100; total membership 40, volunteers; bell alarm. Foreman, M. Griggs.

WATER SUPPLY—Source, Caryl creek; system, gravity; 17 hydrants; pipe 6 miles, 12 to 4 in dia; 8 valves; 72 taps; pressure, domestic 110, fire 100 pounds; waterworks owned by company; cost to construct \$34,000; ann expenses \$150. Supt, Frank E. Rockefeller.

Yonkers, Westchester Co., population 33,000; fire area 5,120 acres; mercantile buildings, brick, 4 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hand engines, 6 chemical extinguishers, 3 hook and ladder trucks, 8 hose carriages, 4 hose wagons; (have in reserve 1 truck, 4 hose carriages, 2 extinguishers); hose, cotton good 9,600 ft, rubber good 200 ft; value of fire department equipment \$16,000; value of 7 buildings occupied \$60,000; total ann expenses of department \$10,000; total membership 480, volunteers; Gamewell alarm; 19 street boxes, expect to put in 35 more. Chief engineer, J. Mulcahey.

WATER SUPPLY—Source, Sprain and Grassy Sprain brooks; system, pumping to tank, reservoir and direct; reservoir cap, storage 404,000,000 gals, distributing 4,000,000 gals, tank cap 490,000 gals, standpipe 280,000; pumping engines, dy cap 9,000,000 gals; 513 hydrants; pipe 47½ miles, 4 to 24 in dia; 308 valves; 3,291 taps; pressure 30 to 137 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$85,445.66 cost to Dec. 1st 1893, \$1,154,417; ann expenses \$30,882. Supt, Jos. A. Lockwood.

Places having a population of 1,000 and upward, that have no fire protection: Piermont, Rockland Co., population 1,219; Port Ewen, Ulster Co., population 1,211; Verplanck, Westchester Co., population 1,515; Washington Mills, Oneida Co., population 1,186; Williamsbridge, Westchester Co., population 1,685.

NORTH CAROLINA.

Asheville, Buncombe Co., population 12,360; fire area 53 acres; mercantile buildings, brick, iron and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance. Fire department—8 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, all kinds; hose, rubber good 2,800 ft, inferior 2,000 ft, linen good 500 ft; 4 horses, value \$800; value of fire department equipment \$12,000; value of department buildings \$30,000; total expenses for past year \$3,245; total membership 57, 2 paid full time, 55 volunteers; Gamewell alarm, 15 street boxes. Chief engineer, J. R. Rich.

WATER SUPPLY—Source, Swannanoa river; system, pumping to standpipe; reservoir cap 750,000 gals; standpipe cap 400,000 gals, pumping engines, dy cap 1,250,000 gals; 100 hydrants; pipe 20 miles, 4 to 18 in dia; 60 valves; 700 taps; pressure, domestic 100, fire 100 to 200 pounds; waterworks owned by city; cost to construct \$300,000; ann expenses estimated \$5,000. Supt, J. L. Murray.

Beaufort, Carteret Co., population 2007; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine; hose, rubber good 100 ft, inferior 100 ft.

WATER SUPPLY—Source, river and wells. Town clerk, J. L. Gobble.

Bryson City, Swain Co., included in Charleston township; mercantile buildings, wood, 2 stories; private, wood, 2 stories; shingle roofs used; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells. Clerk, I. B. Conley.

Charlotte, Mecklenburg Co., population estimated 15,000; fire area 1 mile x $\frac{1}{2}$ mile; mercantile buildings, brick and stone, 2 to 4 stories; private, wood and brick, 2 stories; fireworks ordinance; wooden roofs not permitted in fire limits. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 5 hose carriages, all kinds; siamese couplings used; hose, rubber good 500 ft, cotton good 2,000 ft; 5 horses, value \$750; value of fire department equipment \$30,000; value of department buildings \$15,000; total ann expenses of department \$4,500; total membership 120, paid full time 6, paid part time 9; electric alarm; 28 street boxes. Chief engineer, H. W. Jetton. (Hook and ladder truck and hose carts will be purchased.)

WATER SUPPLY—Source, springs and creek; system, gravity and pump to standpipe, cap 200,000 gals; 2 reservoirs of 6,000,000 and 10,000,000 gals each; pumping engines, dy cap 2,500,000 gals; 140 hydrants; pipe 12 miles, 4 to 12 in dia; pressure, domestic 35 to 100 pounds; waterworks owned by company; cost to construct to date \$150,000; ann expenses \$6,000. Supt, D. P. Hutchison.

Clinton, Sampson Co., population est 1,200; fire area circle of 1 mile; buildings, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—3 hand engines, 1 hook and ladder truck; hose, cotton good 225 ft; value of buildings occupied \$100; total ann expenses of department \$25; total membership 130, volunteers; bell alarm. Chief engineer, E. H. Hubbard.

WATER SUPPLY—Source, open wells.

Concord, Cabarrus Co., population 4,500; mercantile buildings, brick, 2 stories, private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, rubber good 490 ft, inferior 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$2,000; total membership 48, volunteers; bell alarm. Chief, C. M. Seppenhof.

WATER SUPPLY—Source, Eno river; system, pumping to tanks, cap 30,000 gals; 8 hydrants; pipe 700 ft; quality of water good filtration; works owned by P. B. Fetzner. Town clerk, F. A. Archibie.

Durham, Durham Co., population about 7,000; fire area 1 sq mile; mercantile buildings, brick and stone, 2, 3 and 4 stories; private, wood, and brick, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1

chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, private hose, siamese couplings used; hose, cotton rubber lined good 2,500 ft, inferior 600 ft; 4 horses, value \$800; value of fire department equipment \$12,825; value of buildings occupied \$8,000; total ann expenses of department \$1,598; total membership 85, paid full time 3, paid part time 2, volunteers 81; Gamewell alarm; 11 street boxes; 1 hook and ladder company, 2 hose companies. Chief engineer, W. C. Bradsher.

WATER SUPPLY—Source, Eno River; system, pumping to reservoir and direct; reservoir cap 3,000,000 gals; pumping engines, dy cap 2,500,000 gals; 88 double hydrants; pipe 15 miles, 4 to 12 in dia; pressure, domestic 68, fire 100 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct \$240,000; ann expenses \$2,500. Pres and supt, S. Holman.

Edenton, Chowhan Co., population 2,205; fire area 100 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, wells and streams.

Elizabeth City, Pasquotank Co., population 4,000; fire area 2 sq miles; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted, mostly metal; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 400 ft, cotton good 800 ft; 3 horses, value \$550; value of fire department equipment \$4,000; value of buildings occupied \$5,000; total ann expenses of department \$400; total membership 35, paid full time 1, volunteers 31; bell alarm. Chief engineer, G. S. Bell.

WATER SUPPLY—Source, river, creek, wells and 2 cisterns; cap of same 20,000 gals. Mayor, W. O. Glover; town clerk, J. W. Albertson.

Enfield, Halifax Co., population 1,000; fire area 1 mile; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, 1 hose wagon; hose, rubber good 500 ft, inferior 300 ft; value of fire department equipment \$875; value of buildings occupied \$50; total ann expenses of department \$400; total membership 41; volunteer members 41; bell alarm. Chief engineer, S. Meyer.

WATER SUPPLY—Source, wells.

Fayetteville, Cumberland Co., population 5,400; fire area 50 acres; mercantile buildings, brick, iron and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, rubber inferior 500 ft; value of fire department equipment \$8,000; total ann expenses of department \$950; membership 38, paid full time 1, paid part time 35, volunteers; bell alarm. Chief engineer, James D. McNeill.

WATER SUPPLY—Source, Glenville Ponds and creeks; system, pumping to standpipe; standpipe cap 105,000 gals; pumping engines, dy cap 1,000,000 gals each; hydrants 52; pipe 8 miles, 4 to 10 in dia; 38 valves; pressure, domestic 85, fire 85 pounds; waterworks owned by company; cost to construct \$1,300,000; ann expenses \$4,000. Supt, H. D. C. Richards, 98 Hudson st, Jersey City, N. J.

Goldsborough, Wayne Co., population 5,500; fire area 300 acres; buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 3 hose carriages, all kinds, 1 hose wagon, siamese couplings used; hose, cotton good 1,500 ft, rubber inferior 500 ft; 3 horses, value \$800; value of equipment \$11,000; value of buildings occupied \$5,500; total membership 48, paid full time 3, volunteers 57; bell alarm. Chief engineer, A. B. Freeman.

WATER SUPPLY—Source, creek and springs; system, pumping to standpipe, cap 150,000 gals; Worthington pumping engines, dy cap 1,000,000 gals each; 64 hydrants; pipe 7 $\frac{1}{2}$ miles, 4 to 12 in dia; 29 valves; pressure, domestic 60, fire 150 pounds; cost to construct \$75,000; ann expenses \$2,000. Supt, H. P. Dortch.

Greensborough, Guilford Co., population 4,500; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance strictly enforced. Fire department—1 steam fire engine, 1 hand engine (in reserve), 1 chemical engine on wheels, 1 hook and ladder truck, 5 hose carts, 1 hose wagon; hose, rubber lined good 3,300 ft, inferior 200 ft; 3 horses, value \$600; value of buildings occupied \$3,000; total membership 98, paid full time 2, paid part time 3; 6 fire companies; Gaynor electric alarm system; 10 boxes. Chief engineer, C. D. Benbow.

WATER SUPPLY—Source, creek and springs; system, pumping to standpipe, cap 150,000 gals; reservoir cap 3,000,000 gals; pumps dy cap 3,500,000 gals; 108 hydrants; pipe 8½ miles, 4 to 10 in dia; 45 valves; 200 taps; pressure, domestic 40, fire 80 pounds; waterworks owned by company; cost to construct \$50,000, to date \$85,000; ann expenses \$3,500. Pres. J. D. Glenn.

Greenville, Pitt Co., population 1,937; buildings, wood, 1 and 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck; total membership 25, volunteers.

WATER SUPPLY—Source, wells and river.

Hayesville, Clay Co., population 350; fire area 10 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, wells.

Henderson, Vance Co., population 4,191; fire area 30 acres; buildings, brick and wood, 1, 2 and 3 stories; shingle, slate and tin roofs; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton 1,500 ft; value of equipment \$2,000; value of buildings occupied \$1,000; total membership 100, volunteers; bell alarm; 3 fire companies. Chief, J. D. Cooper.

WATER SUPPLY—Source, creek or Fox pond; system, pumping to standpipe and direct; standpipe cap 172,000 gals; pumping engines, dy cap 2,500,000 gals; 68 hydrants; pipe 7 miles, 4 to 12 in dia; 30 valves; pressure 40 to 150 pounds; works owned by company; cost to construct \$90,000. Supt, J. H. Bridgers.

Hendersonville, Henderson Co., population 1,216; mercantile buildings, brick, with tin roofs private, wood, 1 and 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hand hose reel; hose, 600 ft; membership 14.

WATER SUPPLY—Source, springs, system, gravity; reservoir cap 5,000,000 gals; 20 hydrants, pipe 4 miles, 6 and 8 in dia; 25 valves; quality of of water soft and clear; pressure 140 pounds; works owned by city; cost to construct \$20,000; ann expenses \$350. Supt, J. S. Barnett.

Hickory, Catawba Co., population 2,023; buildings, wood, 1 and 2 stories, fireworks ordinance. Fire department—1 hand engine (small) 1 hook and ladder truck; total membership 25, volunteers.

WATER SUPPLY—Source 1, cistern.

Hillsborough, Orange Co., population 662; fire area 6 acres; private buildings, stone, 1 story; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical extinguisher.

WATER SUPPLY—Source, wells.

Huntersville, Mecklenburg Co., population 431; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department consists of ladders, hooks and buckets.

WATER SUPPLY—Source, wells. Mayor, J. L. Choat.

Kinston, Lenoir Co., population 2,300; buildings, wood and brick, 2 stories; fireworks ordinance; wooden roofs not permitted. Fire department—buckets.

WATER SUPPLY—Source, wells and river.

Lenoir, Caldwell Co., population 900; fire area 250 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hose carriage; hose, cotton good 800 ft, rubber good 100 ft, inferior 100 ft; value of fire department equipment \$1,400; total membership 15,

volunteers; bell alarm; 1 fire company. Chief engineer, G. F. Harper.

WATER SUPPLY—Source, cisterns of 150,000 gals cap; 6 hydrants; pipe ½ mile 1½ in dia; waterworks contemplated.

Lexington, Davidson Co., population 1,900; mercantile buildings, brick, 2 stories; private, wood, 2 stories; tin roofs used; no fireworks ordinance; causes of fire investigated. Fire department—buckets and ladders.

WATER SUPPLY—Source, wells. Mayor, R. T. Pickens.

Lincolnton, Lincoln Co., population 957; fire area 1 mile sq; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine; hose cotton good 200 ft; total membership 25, volunteers; value of fire department equipment \$300; total ann expenses \$25. Chief engineer, Henry Taylor.

WATER SUPPLY—Source, wells.

Milton, Caswell Co., population 705; buildings brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, linen good 600 ft; total membership 80, volunteers.

WATER SUPPLY—Source, 2 large cisterns cap 74,000 gals; 13 private cisterns. Mayor, F. H. Hunt.

Monroe, Union Co., population about 2,500; mercantile buildings, brick and wood, 1 and 3 stories; private; 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carts, 1 hose wagon; hose, linen good 1,200 ft, poor 300 ft; 3 horses, value \$300; value of fire department apparatus \$8,000; value of buildings occupied \$1,200; total membership 55, bell alarm. Chief engineer, Dr. S. J. Welsh.

WATER SUPPLY—Source, 7 cisterns, cap 120,000 gals. Town clerk, J. M. Terrell.

Mooreville, Iredell Co., population 886; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck. Pres. C. V. Volla.

WATER SUPPLY—Source, wells.

New Bern, Craven Co., population 9,000; fire area city limits; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire district; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, private chemical extinguishers, 4 hose carriages; hose, cotton good 2,000 ft, rubber inferior 500 ft; 6 horses, value \$1,250; value of fire department equipment \$7,500; value of buildings occupied \$6,000; total ann expenses of department \$2,500; total membership 100, volunteers, paid part time 6; electric alarm. Chief engineer, W. D. Barrington.

WATER SUPPLY—Source, artesian wells; system, direct pumping; pumping engines, dy cap 1,000,000 gals; pipe 2 miles, 3 in dia; pressure, domestic 40, fire 100 pounds; waterworks owned by A. R. Benson. Mayor, R. D. Williams; city clerk, Silas Fulcher. (Waterworks contemplated.)

Newton, Catawba Co., population 1,500; fire area 100 acres; mercantile buildings, brick, 1 3 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance strictly enforced. Fire department—1 hook and ladder truck; value of fire department equipment \$500; value of buildings occupied \$300; total ann expenses of department \$125; total membership 25, volunteers; bell alarm. Chief engineer, W. B. Galthes.

WATER SUPPLY—Source, wells.

Oxford, Granville Co., population 2,907; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hook and ladder trucks; total membership 60.

WATER SUPPLY—Source, wells.

Plymouth, Washington Co., population 1,215; fire area 1-2 by 1-3 mile; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber inferior 200 ft, linen good 400 ft; value of fire department equipment \$750; value of buildings occupied \$3,500; total ann expenses of department \$100; total membership 35, volunteers; bell alarm. Chief engineer, R. R. Latham.

WATER SUPPLY—Source, Roanoke river and wells; system, gravity. Mayor, I. W. Bryan; Town clerk, Jos. Tucker.

Raleigh, Wake Co., population 12,678; fire area 1,400 acres; mercantile buildings, wood and brick, 2 and 4 stories; private, wood, 3 stories; wooden roofs permitted outside fire district; fire works ordinance. Fire department—1 steam fire engine (reserve), 1 hand engine, 2 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 4,000 ft, inferior 500 ft, rubber good 750 ft, inferior 500 ft, leather 500 ft; 10 horses; value of fire department equipment \$19,500; total ann expenses of department \$3,500; total membership 157, paid full time 13, 127 volunteers; bell and Gamewell alarm; 25 street boxes; 4 fire companies. Chief engineer, E. B. Engelhard.

WATER SUPPLY—Source, Walnut creek; system, pumping from reservoir to standpipe and direct; reservoir cap 2,000,000 gals; standpipe cap 125,000 gals; 4 pumping engines, dy cap 4,000,000 gals; 149 hydrants; pipe 23½ miles, 4 to 14 in dia; 72 valves; pressure, domestic 50 to 75, fire 75 to 100 pounds; waterworks owned by company; cost to construct \$185,000. Supt, E. B. Engelhard.

Reidsville, Rockingham Co., population 5,000; buildings (wood buildings and wooden roofs not permitted in business section), brick, 3 stories; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 1,500 ft; value of fire department equipment \$16,000; value of buildings occupied \$500; expenses for past year \$523; 13 members, paid full time 1, paid part time 12. Chief engineer, S. H. White.

WATER SUPPLY—Source, 1 cistern, cap 75,000 gals also private cisterns available.

Rocky Mount, Edgecombe Co., population 1,000; fire area 30 acres; buildings, wood and brick, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—ladders, axes and buckets.

WATER SUPPLY—Source, wells. Mayor, Thos. H. Battle.

Salem, Forsyth Co., population 4,000; fire area 2 sq miles; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 3 hose carriages, 1 hose reel; hose, cotton 700 ft, rubber 500 ft, linen good 1,050 ft; 4 horses, value \$500; value of department apparatus \$5,000; value of buildings occupied \$3,500; ann expenses \$400; total membership 22; Gamewell alarm. Chief engineer, F. C. Meening.

WATER SUPPLY—Source, 3 wells and spring; system, pumping to reservoir; reservoir cap 450,000 gals; pumping engines, dy cap 150,000 gals; 57 hydrants; pipe 34,046 ft, 2 to 10 in dia; 29 valves; pressure 37 to 85 pounds; quality of water good; waterworks owned by company; cost to construct \$33,000; to date \$37,744.37; ann expenses \$1,200. Pres, Frank H. Fries; supt, C. H. Fogle. (Are constructing reservoir, cap 1,500,000 gals.)

Salisbury, Rowan Co., population 8,000; fire area 800 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines (not in use), 1 chemical engine on wheels (not in use), 1 hook and ladder truck, 3 hose carriages; hose, rubber good 400 ft, cotton good 800 ft; value of fire department equipment \$5,000; rent of buildings occupied \$1,200; total membership 38, volunteers; 4 fire companies; bell alarm. Chief, Geo. G. Seyfert.

WATER SUPPLY—Source, creek; system, pumping to standpipe, cap 240,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 78 hydrants; pipe 8½ miles, 4 to 12 in dia; 44 valves; 187 taps; pressure, domestic 40, fire 100 pounds; waterworks owned by company; cost to construct \$85,000. Supt, E. B. Neave.

Scotland Neck, Halifax Co., population 1,300; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck; membership 23; bell alarm. Capt, T. J. Powell.

WATER SUPPLY—Source, wells. Mayor, J. A. Perry.

Smithfield, Johnston Co., population 550; buildings, wood, 1 and 2 stories; fireworks ordi-

nance. Fire department—1 hook and ladder truck, equipped with buckets, axes, etc.

WATER SUPPLY—Source, wells and cisterns.

Statesville, Iredell Co., population 3,500; fire area 50 acres; buildings, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton good 1,500 ft, poor 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$925; total membership 25, paid. Foreman, J. D. Cochran.

WATER SUPPLY—Source, cisterns, dy cap 60,000 gals. Town clerk, E. B. Steinson. (Waterworks contemplated.)

Tarborough, Edgecombe Co., population 1,928; fire area 30 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton inferior 100 ft, rubber good 700 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$730; total membership 98, volunteers; bell alarm; 3 street boxes; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, Wood Winborn.

WATER SUPPLY—Source, Hendricks creek, 2 miles distant; system, pumping to tank and direct; tank cap 20,000 gals; pumping engines, dy cap 60,000 gals; hydrants 15; pipe 4 miles, 4 and 5 in dia; quality of water good; pressure, domestic 30, fire 150 pounds; works owned by city; cost to construct \$7,000. Engineer, Edwin Haywood.

Warrenton, Warren Co., population 1,000; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck; total membership 40, volunteers. Capt, John J. Plummer.

WATER SUPPLY—Source, wells.

Washington, Beaufort Co., population 4,000; mercantile buildings, brick, with metal roofs, 2 stories; private, wood; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 100 ft, leather good 1,900 ft; total membership 175, volunteers; bell alarm; 4 fire companies. Chief engineer, Edmund S. Hoyt; chairman, Samuel R. Fowle.

WATER SUPPLY—Source, Pamlico river and wells.

Wilmington, New Hanover Co., population 2,050; fire area 400 acres; mercantile buildings, brick, 2, 3 and 4 stories; private, wood, 2 stories; wooden roofs sometimes permitted; fireworks ordinance. Fire department—3 steam fire engines, 4 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 4 hose carriages; hose, cotton 4,500 ft, rubber 500 ft; 14 horses, value \$35,000; value of fire department equipment \$14,000; value of buildings occupied \$15,000; total ann expenses of department \$13,000; total membership 250, paid full time 13, part time 5, Gamewell alarm; 31 street boxes; 6 fire companies. Chief engineer, Martin Newman.

WATER SUPPLY—Source, Cape Fear river; system, pumping to standpipe and direct; pumping engines, dy cap 3,000,000 gals; 105 hydrants public, 33 private; pipe 14 miles, 4 to 12 in dia; 60 valves; pressure, domestic 25 to 50, fire 75 to 100 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct \$198,000; ann expenses \$8,950. Supt, John C. Chase.

Wilson, Wilson Co., population 2,900; fire area whole town; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,500 ft; value of fire department equipment \$3,500; value of buildings occupied \$3,500; total ann expenses of department \$250; total membership 42, volunteers; bell alarm. Chief engineer, W. P. Wooten.

WATER SUPPLY—Source, small stream; system, pumping to standpipe; standpipe cap 140,000 gals; pumping engines, dy cap 1,018,800 gals; 61 hydrants; pipe 208,059 ft, 4 to 12 in dia; 54 valves; 35 taps; pressure, domestic 40 to 45, fire 150 pounds; waterworks owned by city; cost to construct \$50,-

261.62; ann expenses \$1,200. Supt, R. J. Grantham.

Winston, Forsyth Co., population 13,000; fire area 150 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance. Fire department—3 steam fire engines, 6 chemical extinguishers, 2 hook and ladder trucks, 2 jumpers, 2 hose wagons; hose, rubber good 5,000 ft; 7 horses, value \$1,250; value of fire department equipment \$20,000; value of buildings occupied \$15,000; total ann expenses of department \$4,000; total membership 70, paid full time 5, paid part time 60; Gamewell alarm; 18 street boxes. Chief engineer, J. W. Hawes.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 1,000,000 gals; water-power pump, dy cap 220,000 gals; 45 hydrants;

pipe 4-3-4 miles, 4 to 10 in dia; valves; pressure, domestic 27, fire 15 to 45 pounds; waterworks owned by company; cost to construct \$58,000; ann expenses \$1,800. Secy, treas and gen'l manager, George Hinshaw.

Places having a population of 1,000 and upward that have no fire protection: Burlington, Alamance Co., population 1,716; Chapin Hill, Orange Co., population 1,017; Gastonia, Gaston Co., population 1,033; James City, Craven Co., population 1,237; Laurinburg, Richmond Co., population 1,357; Morgantown, Burke Co., population 1,557; Morehead City, Carteret Co., population 1,084; Mount Airy, Surry Co., population 1,768; Shelby, Cleveland Co., population 1,304; Southport, Brunswick Co., population 1,207; Wadesboro, Anson Co., population 1,198; Weldon, Halifax Co., population 1,286.

NORTH DAKOTA.

Ardoek, Walsh Co., population 250; fire area 10 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose cart; hose, good 650 ft, inferior 50 ft. Chief, W. A. Fox.

WATER SUPPLY—Source, large surface reservoirs.

Bathgate, Pembina Co., population about 600; fire area 20 acres; mercantile buildings, wood, 2 stories; private, wood 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, poor 300 ft; value of fire department equipment \$800; value of buildings occupied \$500; total membership 40, volunteers; bell alarm. Chief engineer, S. D. Bostwick.

WATER SUPPLY—Source, river.

Bismarck, Burleigh Co., population 5,000; fire area 640 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—5 chemical extinguishers, 1 chemical engl e, 1 hook and ladder truck, 2 hose carts, 2 supply wagons; hose, cotton good 2,000 ft, linen good 800 ft, chemical good 250 ft; value of fire department equipment \$9,000; value of 2 buildings occupied \$2,500; total ann expenses of department \$7,300; membership 80, paid full time 2, volunteers, 78; bell alarm; 3 fire companies. Chief engineer, Chas. A. Bentley.

WATER SUPPLY—Source, Missouri river; system, pumping to reservoir; 2 reservoir cap 2,000,000 gals; pumping engines, dy cap 3,000,000 gals; pipe 10 miles, 24 meters; pressure 65 pounds; works owned by company; cost to construct \$110,000; Pres, C. B. Little.

Cassellton, Cass Co., population 1,200; fire area 75 to 100 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 1½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 24 chemical extinguishers, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$5,300; value of buildings occupied \$3,600; total ann expenses of department \$200; total membership 25, volunteers; bell alarm. Chief engineer, H. F. Strehlow.

WATER SUPPLY—Source, artesian wells and creeks; pumping to reservoir, cap 80,000 to 100,000 gals. Clerk, D. S. Smith.

Crystal, Pembina Co., population 650; fire area 1 sq mile; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage and ladders; hose, linen good 800 ft, poor 200 ft; value of fire department equipment \$4,000; value of buildings occupied \$600; total membership 35, volunteers; bell alarm; 2 fire companies, 1 engine company, 1 hose company. Chief, D. F. Humphreys.

WATER SUPPLY—Source, Park river; system, pumping to tank; cap 400 barrels. Mayor, A. F. Appleton.

Devil's Lake, Ramsey Co., population 1,500; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance. Fire depart-

ment—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 900 ft, inferior 300 ft, cotton good 1,000 ft; volunteer members 60; bell alarm. Chief engineer, C. W. Greene.

WATER SUPPLY—Source, artesian wells; water runs from well into 6 cisterns; cap 225 barrels each; works owned by city; cost \$1,100. Town clerk, C. M. Fisher.

Dickinson, Stark Co., population 2,500; mercantile buildings, brick, 2 stories; private, wood, 2 stories; roofs, shingles and steel; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 750 ft; value of fire department equipment \$500; value of buildings occupied \$400; total ann expenses of department \$40; total membership 25, volunteers; whistle and bell alarm. Chief engineer, J. G. Luneville.

WATER SUPPLY—Source, N. P. R. R.; system, pumping; 2 hydrants; pressure 140 pounds; waterworks owned by company. Railroad also have water with steam pump.

Ellendale, Dickey Co., population 761; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. No organized fire department.*

WATER SUPPLY—Source, artesian well; system, gravity; 10 hydrants; pipe 8-4 mile; quality of water good; works owned by town; cost to construct \$7,000. City auditor, Charles Ackley.*

Fargo, Cass Co., population 10,000; fire area 900 acres; mercantile buildings, brick, 2 to 4 stories; private, wood and brick, 2 stories; wooden roofs permitted in some locations. Fire department—1 hook and ladder truck, 1 hose carriage; 1 hose wagon, 1 hose sleigh; hose, cotton good 2,950 ft; 4 horses, value \$400, value of fire department equipment \$1,200; value of buildings occupied \$8,000; total membership 60, paid full time 10; electric alarm; 17 street boxes; 1 hook and ladder company, 2 hose companies. Chief engineer, C. B. Wade.

WATER SUPPLY—Source, Red river of the North; system, direct pumping from filter basin; pumping engines, dy cap 2,250,000 gals; 85 hydrants; pipe 13 miles, 2 to 12 in dia; 50 valves; 500 taps; pressure 30 to 100 pounds; waterworks owned by city; cost to construct \$75,000; ann expenses \$2,500. Supt, S. F. Kelley.

Fort Buford, Buford Co., population 350; fire area 30 sq miles; U. S. military post; mercantile buildings, wood, 1 story; private, wood 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 5 hand hose carriages; hose, rubber good 3,000 ft, inferior 700 ft.*

WATER SUPPLY—Source, Missouri river; system, pumping to tank and direct; reservoir cap 50,000 gals; duplex pumping engines, dy cap 500,000 gals; 10 hydrants; pipe 2 1-4 miles, 5 in dia; 6 valves; pressure, domestic 35, fire 120 pounds; works owned by U. S. Government; cost to construct \$8,200; ann expenses \$2,800. Supt, B. L. Hardaway.

Grafton, Walsh Co., population 2,300; fire area 3-4 sq mile; mercantile buildings, wood 1½ stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages;

hose, cotton good 1,500 ft. rubber good 700 ft. inferior 300 ft.; value of equipment \$3,500; value of buildings occupied \$1,000; membership 70, volunteers; bell and whistle alarm; 3 fire companies. J. McDonald. *

WATER SUPPLY—Source, artesian well; system, pumping direct; pumping engines, dy cap 2,880,000 gals; 13 hydrants; pipe 2 miles, 6 in dia; 18 valves; pressure 11 to 80 pounds; works owned by city; cost to construct \$15,000; ann expenses \$3,940. Supt, Thompson Boundy. *

Grand Forks, Grand Forks Co., population 8,000; fire area 1,240 acres; mercantile buildings, brick and stone, 2 to 5 stories; private, wood, 1½ to 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, (not used) 1 hook and ladder truck, 1 aerial truck, 5 hose carriages, all kinds, 1 hose wagon; hose, cotton good 3,500 ft., poor 500 ft.; 4 horses, value \$800; value of fire department equipment \$7,200; value of buildings occupied \$10,000; total ann expenses of department \$6,000; total membership 50, paid full time 5, paid part time 45, volunteer members; Gamewell alarm; street boxes 12; 7 fire companies, 2 hook and ladder companies, 5 hose companies. Chief engineer, E. H. Mix.

WATER SUPPLY—Source, Red Lake and river; system, pumping to mains; pumping engines, dy cap 3,170,000 gals; hydrants 68; pipe 9½ miles, 4 to 14 in dia; 75 valves; 24 meters; taps 450; pressure, domestic 40, fire 80 pounds; waterworks owned by city; original cost to construct \$18,000; expenses of construction to date \$100,000; ann expenses \$5,600. Supt, Geo. W. Aker. *

Hillsboro, Traill Co., population 1,200; fire area 10 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft., rubber good 1,000 ft., inferior 500 ft.; value of fire department equipment \$3,500; value of buildings occupied \$1,500; total membership 62, volunteers; bell alarm; 3 fire companies. Chief engineer, John Carmody.

WATER SUPPLY—Source, artesian wells.

Jamestown, Stutsman Co., population 3,000; fire area 1 mile sq; buildings, brick and wood, 2 stories; shingle roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 300 ft., inferior 500 ft., cotton good 1,500 ft.; value of fire department equipment \$4,000; value of buildings occupied \$4,000; total ann expenses of department \$150; total membership 80, volunteers; bell alarm. Chief engineer, A. M. Clough.

WATER SUPPLY—Source, artesian wells; system, gravity; 18 hydrants; pipe 1½ miles, 4 to 8 in dia; 10 valves; pressure, domestic 95 pounds; waterworks owned by city; cost to construct \$15,000; ann expenses \$62. Com, H. A. Blood.

Larimore, Grand Forks Co., population 553; buildings, wood, 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft.; total membership 39, volunteers. Chief engineer, A. D. Bangham. *

WATER SUPPLY—Source, wells and cisterns; system, pumping to standpipe, cap 400 bbls; dy cap of cisterns 54,400 gals; cost to construct \$3,000. City auditor, E. H. Mory.

Lisbon, Ransom Co., population 935; fire area 400 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 2, 15 barrel water tanks on wheels; hose, rubber good 300 ft., inferior 300 ft.; value of fire department equipment \$2,500; value of buildings occupied \$600; total ann expenses of department \$250; total membership 30, volunteers; 2 engine companies. Chief engineer, Frank Russell.

WATER SUPPLY—Source, river and wells.

Mandan, Morton Co., population 1,700; fire

area 80 acres; buildings, brick and wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 8,000 ft., poor 500 ft.; value of fire department equipment \$3,000; total ann expenses of department \$300; total membership 50, volunteers; electric alarm connects with steam whistle. Chief engineer, A. M. Packard.

WATER SUPPLY—Source, Heart river; system, direct pumping; Worthington pump; 10 hydrants; pipe 1½ miles, 4 in dia; pressure 140 pounds; waterworks owned by town; cost to construct \$6,000; ann expenses \$25. Supt, Peter Johnson. *

Mayville, Traill Co., population 1,200; fire area 640 acres; buildings, brick, stone and wood, 1 and 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, ladders; hose, rubber good 700 ft., cotton good 800 ft.; value of fire department equipment \$2,500; value of buildings occupied \$6,000; total ann expenses of department \$250; total membership 50, volunteers; bell alarm. Chief, Geo. O. Stommer.

WATER SUPPLY—Source, artesian wells; 8 cisterns, cap 1,600 bbls; system, direct; 5 hydrants; ½ mile pipe, 6 in dia; works owned by city; cost to construct \$5,500. Town clerk, D. C. Ritchie.

Minot, Ward Co., population 800; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance. No organized fire department; 2 force pumps, 4 chemical extinguishers, 8 ladders.

WATER SUPPLY—Bonds voted for waterworks system.

Park River, Walsh Co., population 750; fire area 40 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam engine, 1 hose carriage, 1 hook and ladder; hose, rubber good 300 ft., poor 200 ft., cotton good 800 ft., poor 200 ft.; value of fire department equipment \$3,500; value of buildings occupied \$500; total membership 20, volunteers; bell alarm. Chief engineer, W. P. Buckingham.

WATER SUPPLY—Source, well and cisterns.

Pembina, Pembina Co., population 1,000; fire area 300 acres; mercantile buildings, wood, 2 stories; private, wood, 2 and 3 stories. Wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 50 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage, 1 hose wagon; hose, rubber good 1,500 ft.; value of fire department equipment \$3,500; value of buildings occupied \$600; total membership 40, paid full time 1, volunteers 39; bell alarm. Chief engineer, Francis A. Hart.

WATER SUPPLY—Source, rivers.

Valley City, Barnes Co., population 1,800; fire area 6 blocks; buildings, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Waterworks contemplated. Mayor, J. W. Holmes.

Wahpeton, Richland Co., population 2,000; fire area 480 acres; mercantile buildings; brick, iron and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted on new buildings; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber poor 250 ft., cotton good 1,750 ft.; value of fire department equipment \$5,000; value of buildings occupied \$1,500; total membership 75, volunteers; bell alarm. Chief engineer, A. E. Sunderhau.

WATER SUPPLY—Source, Otter Tail river; system, gravity and direct; cap of settling well 1,000,000 gals; pumping engines, dy cap 1,000,000 gals; 26 hydrants; pipe 5 miles, 2 to 12 in dia; 20 valves; 2 meters; pressure, domestic 30 to 120 pounds; waterworks owned by city; cost to construct \$85,000; ann expenses \$2,900. Supt, T. F. Doyle. *

*Report of 1893.

OHIO.

Ada, Hardin Co., population 3,000; fire area 700 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; shingle roofs; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 450 ft, inferior 100 ft, rubber good 700 ft; value of fire department equipment \$5,000; value of buildings occupied \$10,000; total ann expenses \$400; membership 50, all volunteers; bell alarm. Chief engineer, J. S. Falt.

WATER SUPPLY—Source, 11 cisterns distributed over the town. Town clerk, F. L. Rice.*

Akron, Summit Co., population 35,000; fire area 50 acres; mercantile buildings, brick, stone and wood, 2 to 5 stories; private, brick, stone and wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 1 chemical (double tank) engine, 10 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 supply wagon; hose, rubber good 5,500 ft, 80 hoses, value \$4,500; value of fire department equipment \$50,000; value of buildings occupied \$50,000; total ann expenses of department \$50,000 (including waterworks); total membership 59, paid full time 27, paid part time 32; Loomis electric alarm; 82 street boxes; 4 fire companies. Chief engineer, B. F. Manderbaob.

WATER SUPPLY—Source, lake and wells; system, gravity and pumping to reservoir; reservoir cap 5,000,000 gals; pumping engines, dy cap 5,000,000 gals; 255 hydrants; pipe 40 miles, 3 to 20 in dia; 125 meters; 2.284 taps; pressure 40 to 90 pounds; works owned by company. Pres, Frank Adams; supt, E. A. Lawton

Alliance, Stark Co., population 9,000; fire area $\frac{1}{2}$ mile by 2 miles; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 8 chemical extinguishers, 1 hook and ladder truck, 1 hose cart, 1 hose wagon; hose, rubber good 700 ft, cotton good 1,800 ft; 2 hoses, value \$900; value of fire department equipment \$10,000; total ann expenses of department \$2,500; total membership 13, paid full time 3, paid part time 10; electric alarm; 35 street boxes. Chief engineer, Wm. Aungst.

WATER SUPPLY—Source, Mahoning river; system, pumping to standpipe and direct; pumping engines, dy cap 1,500,000 gals; 69 hydrants; pipe 81-3 miles, 4 to 13 in dia; 35 valves; 42 meters; pressure domestic 75, fire 100 pounds; waterworks owned by company; cost to construct \$20,000. Supt, J. C. Reed.*

Amesville, Athens Co., population 300; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—buckets and ladders.

WATER SUPPLY—Source, wells and cisterns.*

Amherst, Lorain Co., population estimated 900. Fire department—1 hand engine, 1 hose carriage; hose, rubber and leather good 800 ft; total membership 60, volunteers. Chief engineer, H. C. Smith.

WATER SUPPLY—Source, 6 cisterns. Town clerk, E. A. Stevold.

Andover, Ashtabula Co., population 1200; fire area 200 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam engine, 20 chemical extinguishers, 1 hose, cotton good 700 ft, rubber good 9,300 ft; value of equipment \$3,000; value of buildings occupied \$1,000; ann expenses \$70; membership, 35 volunteers; bell alarm. Chief engineer, G. A. Houghton.

WATER SUPPLY—Source, wells and cisterns. Town clerk, Geo. Stebins.

Ansonia, Darke Co., population 811; fire area 200 acres; buildings, wood and brick, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 785 ft; value of fire department equipment \$3,500; value of buildings occupied \$5,000; ann expenses \$125; total membership 60, volunteers; bell alarm. Chief engineer, Wm. Yockey.

WATER SUPPLY—Source, 7 wells and cisterns. Mayor, L. A. Williams.

Antwerp, Paulding Co., population 1,700; fire area 2,000 acres; buildings, brick and wood, 1 to 3 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, rubber good 600 ft, inferior 300 ft; value of fire department equipment \$2,500; value of buildings occupied \$500; total ann expenses of department \$150; total membership 27, volunteers; bell alarm. Chief engineer, J. L. Poock.

WATER SUPPLY—Source, 10 cisterns, cap 20,000 barrels; ann expenses \$200. Town clerk, A. N. Smith.

Ashland, Ashland Co., population 3,593; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages; hose, rubber good 1,500 ft, leather inferior 500 ft; value of equipment \$5,000; value of buildings occupied \$2,000; total membership 60, volunteers. Chief engineer, F. A. Myers.

WATER SUPPLY—Source, 18 cisterns.

Ashtabula, Ashtabula Co., population 11,500; fire area 5,490 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines in reserve, 2 hand engines reserve, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 3 hose wagons; hose, cotton good 5,500 ft, rubber good 1,000 ft, inferior 800 ft; 8 hoses; value of fire department equipment \$29,800; value of buildings occupied \$6,000; total ann expenses of department \$5,000; total membership 150, paid part time; Gamewell alarm, 18 street boxes; 7 fire companies. Chief engineer, F. W. Blakealee.

WATER SUPPLY—Source, Lake Erie; system, pumping to reservoir and standpipe; reservoir cap 2,500,000 gals; standpipe cap 235,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 150; pipe 12 $\frac{1}{2}$ miles, 4 to 14 in dia; 44 valves; pressure, domestic 60 to 80 pounds; Eason pressure recording gauge; works owned by company; cost to construct \$250,000. Pres or chairman of com, Theodore Hall; supt, O. B. Clark.

Athens, Athens Co., population 3,000; mercantile buildings, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck. Town clerk, C. K. Sheldon.*

WATER SUPPLY—Source, wells and cisterns; a system of waterworks is owned by the Athens Insane Asylum.*

Avondale, Coshocton Co., population 4,473; fire area 500 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 and 2 $\frac{1}{2}$ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, inferior 450 ft; 3 hoses, value \$900; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$3,000; total membership 5, paid full time 5, paid part time 2; telegraph alarm; 60 street boxes. Chief engineer, Joseph A. Brown.

WATER SUPPLY—Source, from Cincinnati Waterworks; 14 miles pipe, 12 to 6 in; pressure 60 lbs.

Barnesville, Belmont Co., population 3,700; fire area 640 acres; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in limits; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft, inferior 200 ft; value of fire department equipment \$2,000; value of department buildings \$5,000; total ann expenses of department \$200; total membership 105, volunteers; bell alarm. Chief engineer, S. S. Foreman.

WATER SUPPLY—Source, wells and cisterns, dy cap 21,000 gals. Mayor, H. W. Baker.

Bataavia, Clermont Co., population 953; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good

400 ft; value of fire department equipment \$800; total membership 50, volunteers; bell alarm. Chief engineer, John Erlon.

WATER SUPPLY—Source, wells and cisterns.

Bellaire, Belmont Co., population 10,000; fire area 1,200 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine ordered, 1 hook and ladder truck, 2 chemical extinguishers, 6 ordered, 5 hose carriages; hose, rubber good 2,000 ft, inferior 1,400 ft; value of fire department equipment \$3,000; value of 4 buildings occupied \$2,500; total ann expenses of department \$2,800; total membership 130, volunteers 120; bell alarm. Chief, G. E. Morgan.*

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir and direct; reservoir cap 2,500,000 gals; pumping engines, dy cap 5,000,000 gals; 96 hydrants; pipe 12 miles, 3 to 20 in dia; 37 valves; 1,863 taps; pressure 55 to 75 pounds; waterworks owned by city; cost to construct \$130,000, cost to date \$200,000; ann expenses \$8,000. Supt and secy, Jas. Wilkinson.

Bellefontaine, Logan Co., population 6,500 fire area 2,480 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 2,000 ft; 3 hoses, value \$750; value of fire department equipment \$4,500; total ann expenses of department \$1,900; total membership 11, paid full time 2, paid part 9; Gamewell alarm; 3 private boxes. Chief engineer, C. F. Martin.

WATER SUPPLY—Source, artesian wells; system pump to reservoir, cap 11,000,000 gals; pumping engines, dy cap 1,500,000 gals; 98 hydrants; pipe 10½ miles, 4 to 16 in dia; 83 valves; 423 taps; pressure 65 pounds; waterworks owned by town; cost to construct \$100,000, cost to date \$110,000; ann expenses \$3,500. Supt, C. F. Martin.

Bellevue, Huron Co., population 3,052; fire area 1,500 acres; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, brick and wood, 2½ stories; wooden roofs not permitted in business portion; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft, rubber good 600 ft, inferior 300 ft; linen good 300 ft; 2 hoses, value \$150; value of fire department equipment \$8,000; value of buildings occupied \$7,000; total ann expenses of department \$300; total membership 23, paid part time; bell alarm. Chief engineer, H. E. Basford.

WATER SUPPLY—Source, surface water; system, pumping to standpipe; reservoir cap 100,000,000 gals; standpipe cap 40,000 gals; pumping engines, dy cap 1,000,000 gals; 35 hydrants; pipe 8½ miles, 12 to 4 in dia; 18 valves; 350 taps; pressure, domestic 18 pounds; fire same; works owned by city; cost to construct \$60,000; ann expenses \$1,800 Supt, J. A. Dempsey.

Belmore, Putnam Co., population 500; fire area 120 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 400 ft, inferior 200 ft; value of fire department equipment \$700; value of buildings occupied \$500; total membership 25, volunteers; bell alarm. Chief engineer, N. Speaker.

WATER SUPPLY—Source, cisterns and wells.

Berea, Cuyahoga Co., population 3,000; buildings, brick, frame and stone, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 100 ft, rubber good 170 ft; value of fire department equipment \$800; value of buildings occupied \$5,000; total ann expenses of department \$50; total membership 36, volunteers; bell alarm. Chief engineer, H. T. Smith.*

WATER SUPPLY—Source, river and tank.

Blanchester, Clinton Co., population 1,500; fire area 1 mile square; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose car-

riages, all kinds; hose, rubber good 150 ft, cotton good 300 ft; value of fire department equipment \$1,200; total membership 50, volunteers; bell alarm. Chief engineer, J. C. Ross.

WATER SUPPLY—Source, private wells and cisterns.

Bluffton, Allen Co., population 1,400; fire area 500 acres; mercantile buildings, main street, brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 500 ft, linen good 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$800; total expenses for past year \$11; volunteer department of 11 members, 1 paid full time; bell alarm. Chief engineer, Henry Zearbaugh.

WATER SUPPLY—Source, 2 cisterns, cap 800 bbls, also creek.

Boltivar, Tuscarawas Co., population 700; fire area 300 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 275 ft; value of fire department equipment \$400; total membership 50, volunteers; bell alarm. Chief engineer, W. E. Lash.

WATER SUPPLY—Source, canal, river and private cisterns.

Bowling Green, Wood Co., population 5,000; fire area 4 sq miles; buildings, brick and wood, 1½ to 3 stories; roofs tin and iron; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,500 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total ann expenses \$500; membership 20, volunteers; bell and whistle alarm. Chief engineer, Richard Briggs.

WATER SUPPLY—Source, wells and cisterns; system, pump direct; standpipe cap 300,000 gals; 81 hydrants; pipe 8½ miles, 12 to 4 in dia; 91 valves. Town clerk, B. H. Selkirk.*

Bradford, Miami Co., population 1,500; fire area 100 acres; mercantile buildings, wood and brick 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose wagon; 200 ft good rubber hose; value of fire department apparatus \$800; buildings \$250; membership 30 volunteers; bell alarm. Foreman, W. K. Staichter.

WATER SUPPLY—Source, wells.

Brooklyn, Cuyahoga Co., population 6,000. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carts; hose, good 1,200 ft; value of fire department equipment \$1,200; total membership 20, volunteers; bell alarm. Chief, W. D. Campbell.

WATER SUPPLY—Source, Cleveland waterworks through meter; hydrants; pipe 9½ miles, 4 to 8 in dia; 50 taps; pressure 50 pounds; waterworks owned by village; cost to construct \$14,000, cost to date \$45,000; ann expenses \$5,000. Pres of com, G. W. Croft; supt, D. B. Fish.

Bryan, Williams Co., population 3,000; fire area 250 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; roofs tin and steel; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, rubber good 1,200 ft, inferior 500 ft, cotton good 1,000 ft; 2 hoses, value \$300; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$1,198; total membership 32, paid full time 2, paid part time 30; electric bell alarm. Chief engineer, J. E. Mattox.

WATER SUPPLY—Source, 8 artesian wells; system, pumping direct into mains; pumping engine, dy cap 1,000,000 gals; hydrants 75; miles of pipe 73-4, 4 to 12 in; 38 valves; taps 140; pressure, domestic 40, fire 60 pounds; waterworks owned by city; original cost to construct \$43,000; expenses of construction to date \$45,000 ann expenses \$2,200. Supt, M. Struble.

Bucyrus, Crawford Co., population 6,500; fire area 3½ sq miles; buildings, brick, stone and wood, 2 and 3 stories; wooden roofs not permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 2 hook and ladder trucks,

2 hose carriages, 1 hose wagon; hose, rubber good 28,00 ft, cotton good 500 ft; 6 horses, value \$1,000; value of fire department equipment \$8,000; value of buildings occupied \$6,000; total ann expenses of department \$5,000; total membership 21, paid full time 4, paid part time 17. Chief engineer, Wm. F. Mader.

WATER SUPPLY—Source, Sandusky river; system, direct pumping; pumping engines, dy cap 4,000,000 gals; 102 hydrants; pipe 12 miles; Mich. B. & Iron Works valves; Hyatt filters; pressure, domestic 40, fire 80 pounds; works owned by company; cost to construct \$80,000; ann expenses \$4,700. Supt, F. P. Kaler.

Cadiz, Harrison Co., population 1,716; fire area 160 acres; mercantile buildings, wood and brick, 3 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, inferior 300 ft, cotton good 500 ft, inferior 300 ft; value of fire department equipment \$7,000; total ann expenses of department \$250; total membership 40, paid part of time 4, volunteers; bell alarm. Chief engineer, J. C. Glover.*

WATER SUPPLY—Source, wells and 7 cisterns, cap 3,700 barrels. Town clerk, W. H. Lucas.*

Caledonia, Marion Co., population 757; buildings, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$5,000; total membership 54, volunteers; bell alarm. Chief engineer, Frederick Busch.*

WATER SUPPLY—Source, 6 reservoirs, cap 200 barrels; 1 hydrant. Village clerk, L. M. Hipsler.*

Cambridge, Guernsey Co., population 5,500; fire area 3,000 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted except in business portion; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, slamese couplings used; hose, cotton good 2,200 ft, inferior 300 ft; value of fire department equipment \$8,000; total ann expenses of department \$800; total membership 100, paid 1; bell alarm; 3 fire companies. Chief engineer, C. L. Wall.

WATER SUPPLY—Source, creek; system, pumping to 9 cisterns; pumping engine, dy cap 100 to 150 barrels.

Canal Dover, Tuscarawas Co., population 4,000; fire area 500 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft; total membership 84, 1 paid fulltime, volunteers; bell alarm; 3 fire companies. Chief engineer, J. Horn.*

WATER SUPPLY—Source, Ohio canal, mill race and Tuscarawas river; 9 cisterns, cap 600 barrels each.

Canal Fulton, Stark Co., population 1,250; fire area 10 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hose carriages, hooks and ladders etc., slamese couplings used; hose, cotton good 900 ft, rubber 1,400 ft; value of fire department equipment \$5,500; value of buildings occupied \$800; total ann expenses of department \$200; total membership 40, paid 3; bell alarm. Chief engineer, Chas. Sorn, Sr.

WATER SUPPLY—Source, canal and river, 3 cisterns, dy cap 2,000 gals.

Canton, Stark Co., population 33,000; fire area 3 miles sq; mercantile buildings, stone, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 chemical engine on wheels, 9 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages; hose, rubber good 3,800 ft, inferior 1,000 ft; 18 horses, value \$3,600; value of fire department equipment \$19,000; value of buildings occupied \$31,000; expenses for past year \$35,000; total membership 70, 25 paid full time, 2 paid part time, 50 volunteers; Gamewell electric alarm; 62 street boxes. Chief engineer, Louis B. Obliger.

WATER SUPPLY—Source, Minishillen creek and drilled wells; system, direct pumping; 2 pumping engines, dy cap 13,000,000 gals; 280 hydrants; pipe 50 miles, 3 to 18 in dia; 200 valves; 3,250 taps; pressure, domestic 70, fire 135 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$350,000; ann expenses \$10,000. Supt, L. B. Ohliger.

Cardington, Morrow Co., population 1,428; fire area 150 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—1 steam engine, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft, inferior 200 ft; value of fire department equipment \$7,000; value of buildings occupied \$1,000; total membership 30, volunteers, paid for actual service; 1 engine company, 1 hook and ladder company, 2 hose companies; bell alarm. Chief, J. Pepper.

WATER SUPPLY—Source, wells and cisterns.*

Carey, Wyandot Co., population 2,000; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted, but seldom used. Fire department—1 hook and ladder truck, buckets; value of fire department equipment \$600; total membership 40, volunteers; bell alarm. Chief engineer, John Sockrider.

WATER SUPPLY—Source, streams, wells and cisterns. (Waterworks contemplated.)

Carrollton, Carroll Co., population 1,400; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, have about 800 feet, other apparatus will be purchased. Captain, H. S. Butler.

WATER SUPPLY—Source, cisterns.

Carthage, Hamilton Co., population 2,257; mercantile buildings, brick, 2 and 2½ stories; private, wood, 1 and 2½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department not reported.*

WATER SUPPLY—Source, wells; system, pumping direct; storage cisterns, cap 120,000 gals; pumping engines, dy cap 900,000 gals; 47 hydrants; pipe 7½ miles; 65 valves; 6 meters; pressure 40 pounds; works owned by village; cost to construct \$20,000. Supt, Chas. Welshod.*

Cedarville, Greene Co., population 1,355; fire area not given; buildings, brick and wood, 1 and 2 stories. Fire department—1 steam fire engine, 1 hand engine, 2 hose carts; hose 1,000 ft.*

WATER SUPPLY—Source, wells.*

Celina, Mercer Co., population 3,000; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 800 ft, inferior 600 ft; 8 horses; value of fire department equipment \$2,500; total membership 23, volunteers; bell alarm. Chief, J. Gerlach.

WATER SUPPLY—Source, 12 cisterna.

Chagrin Falls, Cuyahoga Co., population 1,243; buildings, stone, brick and wood, 1, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage, 1 force pump; hose, rubber good 450 ft, inferior 600 ft. Chairman of fire and water com, W. J. Wyckoff.*

WATER SUPPLY—Source, Chagrin river; pumping direct; 11 hydrants; pipe 1-4 mile, 4 in dia; quality of water fair. Mayor, H. W. Curtiss.*

Chardon, Geauga Co., population 1,084; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted on dwellings; fireworks ordinance. Fire department—2 hand engines, 14 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft, cotton good 500 ft; total membership 38, paid part time; bell alarm. Chief engineer, E. D. King.

WATER SUPPLY—Source, wells and cisterns.

Chicago Junction, Huron Co., population 1,299; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, inferior 200 ft; 2 horses; total membership 40, volunteers; bell alarm. Chief engineer, H. M. Sugler.

WATER SUPPLY—Source, cisterns; system, gravity and pumping; 2 reservoirs; pumping engines, dy cap 200,000 gals; 12 hydrants; pipe 1 mile; 10

valves; waterworks owned by B. & O. R. R. Co. Town clerk, J. J. Denison.

Chillicothe, Ross Co., population 12,000; fire area 1,600 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines (in reserve), 1 combination ladder truck with hose reel, 2 hose carriages; hose, rubber good 2,200 ft, inferior 800 ft, cotton good 600 ft; 5 horses, value \$800; value of fire department equipment \$40,000; value of 3 buildings occupied \$10,000; total ann expenses of department \$8,500; total membership 6, paid full time; Gamewell alarm; 29 street boxes. Chief engineer, Daniel Hammel.

WATER SUPPLY—Source, well on bank Sciota river; system, pumping to reservoir; reservoir cap 3,500,000 gals; 2 pumping engines, dy cap 3,500,000 gals; 125 hydrants; pipe 22 miles, 4 to 16 in dia; pressure 95 pounds; waterworks owned by company; cost to construct \$250,000. Pres, F. A. Stacey; secy, A. C. Kopp.

Cincinnati, Hamilton Co., population 315,000; fire area 24 sq miles; mercantile buildings, brick, stone and iron, 1 to 10 stories; private, brick, stone and wood, 2 to 4 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—37 steam fire engines, 3 chemical engine on wheels, 16 chemical extinguishers, 10 hook and ladder trucks, 40 hose carriages, all kinds; hose, cotton good 45,000 ft, rubber good 2,500 ft; 144 horses; total ann expenses of department \$412,000 in 1893; total membership 298, paid full time; Gamewell alarm; 404 street boxes. Fire marshal, John Archibald. (A water tower and hook and ladder truck contemplated.)

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir and tanks; reservoir cap 105,000,000 gals; pumping engines, dy cap rated 69,000,000 gals, with an additional auxiliary of 28,000,000 gals; 1,750 hydrants; pipe 311.64 miles, 4 to 48 in dia; 40,000 taps; pressure, average 10 to 125 pounds; pressure recording gauge; waterworks owned by city; cost to construct \$9,428,058; ann expenses \$818,618. Pres, A. Herman; supt, Willis P. Tharp.

Circleville, Pickaway Co., population 8,000; fire area 1,300 acres; mercantile buildings, brick, 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hose carriage, 1 combined hose and ladder truck, 2 chemical extinguishers; hose, rubber good 2,000 ft; 4 horses; value of equipment \$8,500; value of buildings occupied \$10,000; total ann expenses of department \$3,300; total membership 19, paid full time 6, paid part time 15; Gamewell alarm; 22 street boxes. Chief engineer, J. M. Baer.

WATER SUPPLY—Source, Darby creek; system, pumping to standpipe and direct; storage reservoir, cap 14,000,000 gals; pumping engines, dy cap 4,000,000 gals; 134 hydrants; pipe 15 miles, 6 to 18 in dia; 490 taps; pressure, domestic 80 to 90, fire 120 to 140 pounds; waterworks owned by company; cost to construct \$170,000; ann expenses \$3,000. Supt, G. R. Haswell.

Cleveland, Cuyahoga Co., population 272,000; fire area 20,460 acres; mercantile buildings, brick and stone, 2 to 10 stories; private, brick, stone and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 fire boats, 18 steam fire engines, 4 under construction (2 reserve), 4 chemical engines on wheels, 12 chemical extinguishers, 6 hook and ladder trucks (1 reserve), 3 aerial trucks, 20 hose wagons (3 reserve), 5 buggies; hose, cotton good 28,000 ft, rubber good 50 ft; 115 horses, value \$200 each; value of fire department equipment \$200,000; value of buildings occupied \$212,000; total ann expenses of department \$368,000; total membership 290, paid full time; Gamewell alarm; street boxes 250. Chief engineer, James W. Dickinson; director of fire service, H. H. Hyman; secy, A. J. Spencer. (Apparatus being constructed; 4 new steamers, 3 new houses, 1 water tower, 1 aerial truck.)

WATER SUPPLY—Source, Lake Erie; system, pumping direct and to reservoirs; 2 reservoirs, cap 80,000,000 gals; pumping engines, dy cap 75,000,000 gals; 3,907 hydrants; pipe 383.5 miles, 4 to 36 in dia; valves 8,194; 43,644 taps; pressure,

domestic 80 to 90 pounds, fire same; pressure recording gauge; works owned by city; cost to construct \$550,000, to date \$6,628,618; ann expenses \$153,292. Director of public works, J. H. Farley; supt, M. W. Kingaley.

Clyde, Sandusky Co., population 2,327; mercantile buildings, brick, 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 3 hand hose carriages, slamese couplings used; hose, cotton good 1,000 ft, rubber 1,000 ft; value of fire department equipment \$6,500; value of buildings occupied \$4,500; total membership 60; bell alarm. Chief engineer, U. T. Wilder.*

WATER SUPPLY—Source, artesian wells; system, direct; storage reservoir; pumping engines, dy cap 2,000,000 gals; 49 hydrants; pipe 8 miles; 26 valves; 308 taps; pressure, domestic 25 to 40, fire 100 pounds; waterworks owned by city; cost to construct \$38,000; ann expenses \$1,950. Pres of works, J. P. McConnell; secy, W. E. Gillett.

Columbiana, Columbiana Co., population 1,112; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 200 ft, inferior 150 ft, linen good 250 ft; total membership 30, volunteers; bell alarm. Captain, T. A. Reckenburger.

WATER SUPPLY—Source, wells and cisterns. Village clerk, E. L. Rominger.

Columbus, Franklin Co., population 100,000; fire area 12 sq miles; mercantile buildings, brick and stone, 4 to 8 stories; private, brick, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—9 steam fire engines, 3 chemical engines on wheels, 8 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 9 hose carriages, all kinds, 1 hose wagon, 1 water tower; hose, cotton good 7,000 ft, rubber good 7,000 ft, inferior 3,000 ft; 56 horses, value \$7,512; value of fire department equipment \$64,800; value of buildings occupied \$130,000; total ann expenses of department \$120,000; total membership 102, paid full time; Gamewell alarm; 100 street boxes. Chief engineer, Henry Heinmiller.

WATER SUPPLY—Source, ground water and wells; system, pumping direct; pumping engines, dy cap 33,000,000 gals; 935 hydrants; pipe 127 miles, 4 to 24 in dia; 1,723 valves; 9,848 taps; pressure 70 pounds; Edison pressure recording gauge; works owned by city; cost to construct to date \$2,028,506.73; ann expenses \$58,000. Supt, A. H. McAlpine.

Columbus Grove, Putnam Co., population 1,660; fire area 1 sq mile; buildings, brick and wood, 2 stories. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 400 ft, cotton good 350 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total membership 75, volunteers; bell alarm. Chief engineer, C. H. Moore.

WATER SUPPLY—Source, wells 100 to 120 feet deep. Town Clerk, J. B. Sprague.

Conneaut, Ashtabula Co., population 4,500; fire area 3,000 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 4 chemical extinguishers, 2 hose carriages; hose, rubber good 500 ft, cotton good 600 ft; value of fire department equipment \$2,500; total ann expenses of department \$600; total membership 25, paid part time; bell alarm. Chief engineer, C. Hayward.*

WATER SUPPLY—Source, gang wells on beach of Lake Erie; system, pump to standpipe and direct; standpipe cap 300,000 gals; pumping engines, dy cap 2,500,000 gals; 95 hydrants; pipe 14 miles, 4 to 12 in dia; 141 valves; pressure 60 to 135 pounds; Edison pressure recording gauge; cost to construct \$246,000; ann expenses \$11,500. Pres, E. A. Miller; tres and gen'l man, H. DeC. Richards.

Coshocton, Coshocton Co., population 4,000; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted but seldom used; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages; hose, rubber good 1,500 ft; value of fire department equipment \$2,000; value of buildings \$3,000; total membership 75, volunteers; bell

alarm; 3 fire companies. Chief engineer, J. B. Manner.*

WATER SUPPLY—Source, river and driven wells; system, pumping to reservoir; reservoir cap 340,000 gals; pumping engines, dy cap 2,000,000 gals; 100 hydrants; pipe 8½ miles, 4 to 12 in dia; 70 valves; 600 taps; pressure, domestic 80 to 110 pounds, fire same; works owned by city; cost to construct \$80,000, cost to date \$70,000; ann expenses \$1,200. Pres, Geo. W. Ames; city civil engineer, J. A. Hanton.

Covington, Miami Co., population 1,800; fire area 600 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam engine, 1 hose carriage; hose, rubber good 800 ft, inferior 300 ft, cotton good 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$800; total expenses of department last year \$188; total membership 42, volunteers; bell alarm. Chief engineer, D. M. Lower.

WATER SUPPLY—Source, river; system, pumping to 10 cisterns, cap 500 bbls each; cost of construction \$7,000; ann expenses \$100. Supt, G. W. Butt.*

Crestline, Crawford Co., population 2,911; fire area 600 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds, 1 hose wagon; hose, linen, rubber lined good 2,000 ft, unlined 500 ft, rubber good 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$800; total membership 70, paid part time 12, volunteer members 68; bell alarm. Chief engineer, Philip Volk.*

WATER SUPPLY—Source, springs and artesian wells; system, gravity; reservoir, cap 400,000; hydrants 47; pipe 14 miles, 8, 6 and 4 in dia; 86 valves; 322 taps; pressure 50 pounds, fire same; works owned by city; cost to construct \$80,000, cost to date \$150,000; ann expenses \$1,200. Supt, Joseph Zeller.

Cuyahoga Falls, Summit Co., population 2,700; fire area 1 mile; buildings, brick, 2 stories. Fire department—10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, poor 300 ft, cotton good 400 ft; value of fire department equipment \$2,500; value of buildings occupied \$5,000; total ann expenses \$1,100; total membership 27, volunteers; steam whistle alarm. Chief engineer, W. I. Clarkson.

WATER SUPPLY—Source, Cuyahoga river; system direct pumping; 3 pumping engines; 17 hydrants; pipe 1 mile, 6 in dia; 13 valves; works owned by city. Pres, M. J. Betts.*

Dalton, Wayne Co., population 610; fire area 500 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 250 ft, inferior 50 ft (more will be purchased); volunteer members. Chairman, J. M. Fiscus.

WATER SUPPLY—Source, reservoirs from fountain; system, pumping direct; reservoir cap 25 ft dia, 10 ft deep; 13 hydrants; pipe 1,010 ft, 8 in dia; quality of water sulphur, not filtered; works owned by city; ann expenses \$150. Pres, J. M. Fiscus.

Dayton, Montgomery Co., population 76,000; fire area 14 sq miles; mercantile buildings, brick, 4 to 6 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 2 chemical engines on wheels, 18 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 12 hose carriages, all kinds, 1 supply wagon, other apparatus, 3 chief's wagons; hose, rubber good 750 ft, cotton good 19,500 ft, linen good 300 ft; 33 hoses, value \$6,200; value of fire department equipment \$90,250; value of buildings occupied \$87,700; total ann expenses of department \$75,474; total membership 73, paid full time 65, paid part time 8; Gamewell alarm; 110 street boxes. Chief engineer, D. C. Larkin.

WATER SUPPLY—Source, 76 8-inch tube wells; system, direct; pumping engines, dy cap 17,000,000 gals; 716 hydrants; pipe 74 miles, 4 to 20 in

dia; pressure, domestic 60, fire 110 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$750,000; ann expenses \$33,500. Supt, Chas. Eckstein.

Defiance, Defiance Co., population 9,000; area 2,720 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 chemical extinguishers, 4 hose carriages, 1 hose wagon, siamese couplings used; hose, rubber and cotton good 2,200 ft, rubber good 1,500 ft; 4 horses; total membership 75, paid 3, part time 2, volunteers 70; value of equipment \$4,000; value of buildings \$48,000; ann expenses \$3,000; telephone and bell alarm. Chief, L. Spring.

WATER SUPPLY—Source, Maumee river; system, pumping to standpipe, cap 339,000 gals; pumping engines, dy cap 5,000,000 gals; 155 hydrants; pipe 17 1-4 miles, 6 to 18 in dia; 54 valves; pressure, domestic 65, fire 100 pounds; works owned by company; cost to construct \$190,000. Supt, S. M. Stevens.

DeGraff, Logan Co., population 1,200; buildings, wood and brick, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses of department \$850; 60 members; paid full time 2, remainder volunteers; bell alarm. Chief engineer, M. E. Burlett.

WATER SUPPLY—Source, wells, cisterns and mill race. Village clerk, B. F. Hudson.

Delaware, Delaware Co., population 8,224; fire area 2,660 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, brick and stone, 1½ and 2 stories; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, siamese couplings used; hose, cotton good 1,000 ft, linen inferior 500 ft; 5 horses; value of equipment \$2,000; value of buildings occupied \$30,000; ann expenses of department \$3,500; total membership 17, paid full time 5, paid part time 12; telephone and bell alarm. Chief nominated by mayor and appointed by city council, W. E. Moore.*

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 337,000 gals; pumping engines, dy cap 4,000,000 gals; 219 hydrants; pipe 17 miles, 4 to 16 in dia; 117 valves; 597 taps; pressure 65 to 150 pounds; waterworks owned by company; ann expenses \$4,362. Supt, C. W. Wiles.

Delphos, Allen Co., population 4,516; fire area 950 acres; buildings, brick and wood, 2 to 4 stories. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 2 hose reels, 4 chemical extinguishers, 1 hose wagon, siamese couplings used; hose, rubber good 1,000 ft; 4 horses, valued at \$500; value of fire department equipment \$11,000; value of buildings occupied \$18,000; 30 volunteer members, 2 paid full time; bell alarm. Chief elected by council, Fred Rauschart.

WATER SUPPLY—Source, canal, creek and 21 cisterns.

Delta, Fulton Co., population 1,132; buildings, brick and wood, 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft; 75 volunteer members; bell alarm. Chief engineer, M. S. Sargent.

WATER SUPPLY—Source, cisterns.

Dennison, Tuscarawas Co., population 2,925; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories. Fire department—1 hand engine, 2 chemical engines, 19 chemical extinguishers, 1 hook and ladder truck, 3 hand hose carts, 6 automatic hose reels; hose, cotton good 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; 80 volunteer members; Gamewell alarm; 6 street boxes; 4 fire companies. Chief engineer, C. A. Spooner.*

WATER SUPPLY—Source, Big Stillwater creek; system, pump to reservoir, cap 3,000,000 gals; pumping engines, dy cap 2,500,000 gals (Unionville supplied by the same plant); 123 hydrants; pipe 12½ miles, 14 to 6 in dia; 593 taps; pressure 100 pounds; works owned by company; cost to

construct \$261,500; ann expenses \$5,000. Supt. F. Potter.

Deashler, Henry Co., population 1,600; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, cotton good 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,600; total ann expenses of department \$1,040; total membership 37, paid full time 1, paid part time 33, volunteers; bell alarm. Chief engineer, M. H. Darby; chairman of fire com, John Donovan.

WATER SUPPLY—Source, cisterns, wells, etc.

Dunkirk, Hardin Co., population 1,220; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 700 ft, inferior 200 ft, rubber inferior 300 ft; value of buildings occupied \$3,000; total expenses of department last year \$40; 30 volunteers. Chief, J. A. Rinehart.*

WATER SUPPLY—Source, 14 cisterns, cap 1,800 barrels. Town clerk, J. T. Kinsey.

East Liverpool, Columbiana Co., population 13,000; fire area 500 acres; mercantile buildings, brick, slate or tin roofs, 2 to 4 stories; private, brick and wood, 1 to 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hook and ladder trucks, 1 aerial truck, 1 hose carriage, 3 hose carts, 1 hose wagon; hose, rubber good 4,000 ft, cotton good 4,000 ft; 6 horses, value \$1,000; value of fire department equipment \$15,000; value of buildings occupied \$10,000; total ann expenses of department \$20,000; total membership 50, paid full time 8, paid part time 17, volunteer members 30; Gamewell alarm; street boxes 18. Chief engineer, M. B. Adam.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir and direct; low service reservoir, cap 2,500,000 gals; high service 1,500,000 gals; pumping engines, dy cap 3,500,000 gals; 130 hydrants; pipe 27 miles, 4 to 20 in dia; 150 gates; 1,050 taps; pressure 70 to 120 pounds; waterworks owned by village; cost to construct \$160,000, to date \$270,000; ann expenses \$12,000. Supt. Phil Morley.

East Palestine, Columbiana Co., population 1,816; buildings, wood, 2 stories; wooden roofs permitted. Fire department—2 chemical engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,800; total ann expenses of department \$1,400; 34 volunteers; bell alarm. Chief engineer, J. R. Hays.*

WATER SUPPLY—Source, 1 well; system, pump to reservoir, cap 300,000 gals; pumping engines, dy cap 750,000 gals; 50 hydrants; pipe 5 3-4 miles, 4 to 10 in dia; 35 valves; pressure, domestic 95, fire 110 pounds; 175 taps; waterworks owned by city; cost to construct \$24,000; cost to date \$78,000; ann expenses \$1,000. Supt. J. R. Hays.

Eaton, Preble Co., population 3,500; fire area 500 acres; mercantile buildings, brick and wood, (slate and tin roofs), 2 and 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine not used, 1 hook and ladder truck, 2 hose reels, 1 hose wagon; hose, rubber good 500 ft, inferior 400 ft, cotton good 1,150 ft, inferior 800 ft; 2 horses, value \$500; value of fire department equipment \$8,500; value of buildings occupied \$10,000; total ann expenses \$2,500; total membership 20, paid members; bell alarm. Chief, W. C. McCabe.

WATER SUPPLY—Source, 10 wells and creeks; system, pumping direct and to standpipe; standpipe cap 190,000 gals; pumping engines, dy cap 1,500,000 gals; 75 hydrants; pipe 9 1/2 miles, 4 to 14 in dia; 74 valves; 248 taps; pressure, domestic 60, fire 120 pounds; works owned by city; cost to construct \$79,651, cost to date \$79,176.68; ann expenses \$1,800. Supt. W. C. Dove.

Edgerton, Williams Co., population 1,100; fire area 180 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels; hose, rubber good 125

ft; value of fire department equipment \$500; total ann expenses of department \$75. Marshall, Geo. W. Collender. (Have voted \$5,000 for improvements.)

WATER SUPPLY—Source, 3 cisterns. Town clerk, Jno. P. Horton.*

Elmore, Ottawa Co., population 1,198; buildings, brick and wood, 2 stories; tin roofs used; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages; hose, cotton good 500 ft, linen good 500 ft, rubber good 500 ft; 75 volunteer members. Chief engineer, G. W. Gallant.

WATER SUPPLY—Source, 10 cisterns, cap 250 bbls each.

Elyria, Lorain Co., population 5,800; fire area 1,000 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 7 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 2,200 ft, rubber good 500 ft, inferior 500 ft; value of fire department equipment \$9,000; value of buildings occupied \$30,000; total ann expenses of department \$1,850; total membership 75, paid part time; bell alarm; 1 hook and ladder company, 5 hose companies. Chief engineer, John Hafner.

WATER SUPPLY—Source, Black river; system, pumping to standpipe, cap 135,000 gals; reservoir cap 150,000,000 gals; pumping engines, dy cap 2,000,000 gals; 61 hydrants; cast iron pipe, pipe 10 miles, 12 to 3 in dia; 64 valves; pressure, domestic 34, fire 100 pounds; waterworks owned by company; cost to construct to date \$198,000; ann expenses \$5,500. Supt. Geo. E. Cripe.

Fayette, Fulton Co., population 890; buildings, brick, 2 stories. Fire department—1 hand engine, 1 chemical extinguisher, 1 hose carriage, ladders; hose, rubber good 600 ft; value of fire department \$1,200; expenses \$35; 24 volunteer members; bell alarm. Chief engineer, C. H. Lewis.

WATER SUPPLY—Source, 12 reservoirs and 3 wells. Mayor, Benj. Storer.

Felletsy, Clermont Co., population 779; mercantile buildings, brick and wood, 1, 2 and 3 stories; private, wood, 2 stories; shingle and tin roofs. Fire department—2 hand engines, 1 aerial truck, 2 hooks, 6 ladders; hose, rubber 300 ft; value of fire department equipment \$450; total ann expenses of department \$25; 1 paid member. Chief engineer, W. H. Lealle.

WATER SUPPLY—Source, wells.

Findlay, Hancock Co., population 20,000; fire area 24 sq miles; mercantile buildings, brick and stone, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 2 hand engines, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 2 hose wagons; hose, cotton good 4,000 ft, inferior 500 ft, rubber good 400 ft, inferior 300 ft; 11 horses, value \$2,100; value of fire department equipment \$30,000; value of buildings occupied \$8,000; total ann expenses of department \$9,000; total membership 65, paid full time 12, volunteers 50; Gamewell alarm; 34 street boxes. Chief engineer, J. B. Rubl.*

WATER SUPPLY—Source, Blanchard river; system, direct pumping; reservoir cap 90,000,000; pumping engines, dy cap 5,000,000 gals; 201 hydrants; pipe 28 miles, 80 to 4 in dia; valves 154; 1,125 taps; pressure, domestic 65, fire 120 pounds; works owned by city; cost to construct to date \$325,000; ann expenses \$7,500. Secy, D. L. Grable.

Forest, Hardin Co., population 1,126; fire area 500 acres; mercantile buildings, wood, brick and stone, 3 and 4 stories; private, hard wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, cotton good 200 ft; value of fire department equipment \$2,100; value of building occupied \$50; total ann expenses of department \$40; 36 volunteer members; bell alarm. Chief engineer, E. I. Harman.*

WATER SUPPLY—Source, wells and cisterns.

Fort Recovery, Mercer Co., population 1,400; fire area 500 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, inferior

250 ft; value of fire department equipment \$2,000; value of buildings occupied \$5,000; total ann expenses of department \$50; total membership 25, volunteers; bell alarm. Chief, J. R. Kruse.

Fostoria, Seneca Co., population 7,070; fire area 5 miles sq; mercantile buildings, brick, stone and wood, 2 to 5 stories; private, brick, stone and wood, 2 to 4 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 supply wagon, slamese couplings used; hose, cotton good 2,500 ft, inferior 500 ft; 3 horses, value \$1,000; value of fire department equipment \$20,000; value of buildings occupied \$15,000; expenses for past year \$2,557; 6 men paid full time, 18 paid part time; bell alarm. Chief engineer, R. B. Linhart.*

WATER SUPPLY—Source, creeks and storage reservoirs; system, pump to standpipe, cap 380,000 gals; reservoir cap 150,000,000; dy cap 2 pumps 3,000,000 gals; 138 hydrants; pipe 17 miles, 4 to 18 in dia; 175 valves; 425 taps; pressure, domestic 60, fire 100 to 120 pounds; works owned by city; cost to construct \$200,000; cost to date \$225,000; ann expenses \$3,500. Supt, B. M. Myers.

Frankfort, Ross Co., population 687; fire area 75 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 chemical extinguishers, 1 hook and ladder truck. Chief engineer, W. D. Vorhes.*

WATER SUPPLY—Source, wells.*

Franklin, Warren Co., population 3,200. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton and rubber good, 2,000 ft; 2 horses; total membership 18, paid part time. Chief engineer, W. H. Dial.

WATER SUPPLY—Source, driven wells; system, direct pumping; pumping engines, dy cap 1,000,000 gals; 63 hydrants; pipe 6 miles, 4 to 12 in dia; 25 valves; 371 taps; pressure 60 to 100 pounds; works owned by city; cost to construct \$45,000; ann expenses \$2,700. Supt, C. Buehner.

Fredericktown, Knox Co., population 950; fire area 200 acres; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 600 ft; value of equipment \$1,500; value of buildings occupied \$2,000; total membership 50, volunteers; bell alarm. Chief engineer, J. G. Davis.

WATER SUPPLY—Source, wells, cisterns and creeks.*

Fremont, Sandusky Co., population 7,141; fire area 2,560 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 1 hose cart, 1 supply wagon, 1 hose wagon; hose, cotton rubber lined good 1,800 ft, rubber inferior 400 ft; 2 horses, value \$400; value of fire department equipment \$4,000; total expenses \$1,800; total membership 10. Chief engineer, C. F. Reiff.*

WATER SUPPLY—Source, springs and gravel beds; system, pumping to standpipe and direct; reservoir cap 2,500,000 gals; standpipe cap 365,000 gals; pumping engines, dy cap 4,000,000 gals; 120 hydrants; pipe 12½ miles, 4 to 16 in dia; 85 valves; 10 meters; pressure, domestic 60, fire 75 to 80 pounds; waterworks owned by city; cost to construct \$150,000; ann expenses \$6,000. Supt, C. F. Reiff.*

Gallion, Crawford Co., population 6,328; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories. Fire department—1 steam fire engine, 1 hand engine, 4 hose carriages, slamese couplings used; hose, cotton good 400 ft, rubber good 1,000 ft, inferior 300 ft; value of fire department equipment \$7,450; value of 2 buildings occupied \$5,000; total membership 83, paid full time 6, paid part time 7, volunteers 70; Gamewell alarm.*

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 35,000 gals; pumping engines, dy cap 1,500,000 gals; 100 hydrants; pipe 11 miles, 4 to 12 in dia; 40 valves; pressure, domestic 40 to 60, fire 80 to 100 pounds; waterworks owned by company; cost to construct \$100,000. Supt, M. G. Chapman.

Gallipolis, Gallia Co., population 6,000; fire

area 200 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, cotton good 500 ft, inferior 1,100 ft, rubber good 1,500 ft, inferior 300 ft; 3 horses, value \$450; value of fire department equipment \$12,000; value of buildings occupied \$5,000; total ann expenses of department \$2,000; total membership 34, paid full time 4, volunteer members 30; bell and telephone alarm. Chief engineer, F. Kuhn.

WATER SUPPLY—Source, cisterns; a system in contemplation and with fair prospects of construction, source will be from the Ohio river, pump to reservoir and direct; cap of reservoir 1,000,000 gals, dy cap 1,500,000 gals; 90 hydrants; pipe 9-15 miles, 18 to 4 in dia; 30 valves; works will be owned by company. Supt, of construction, E. R. Davenport.*

Garrettsville, Portage Co., population 1,046; mercantile buildings, wood, 3 stories; private, wood, 2½ stories; wooden roofs permitted. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, linen good 650 ft; value of fire department equipment \$2,500; total ann expenses of department \$150; total membership 38, volunteers paid for service; bell alarm. Chief engineer, J. C. Lamon.*

WATER SUPPLY—Source, river; system, pumping to cisterns, with horse power fire pump; 4 reservoirs, cap 300 barrels each.

Geneva, Ashtabula Co., population 3,000; fire area 800 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, slamese couplings used; hose, rubber 900 ft, cotton new 750 ft; 2 horses, value \$400; value of fire department equipment \$10,000; value of building occupied \$11,000; total ann expenses of department \$800; total membership 30, paid part time; bell and electric alarm. Chief engineer, F. H. Nearing.

WATER SUPPLY—Source, 12 wells, dy cap 6,500 bbls. Mayor, Henry Means.

Genoa, Ottawa Co., population 839; fire area 150 acres; buildings, brick and wood. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 500 ft, rubber good 250 ft; value of fire department equipment \$1,500; total membership 35, volunteers; bell alarm. Chief engineer, S. H. Burgess.

WATER SUPPLY—Source, wells and cisterns, cap 500 bbls. Town clerk, John Earnst.

Georgetown, Brown Co., population 1,473; fire area 400 acres; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft, inferior 100 ft; value of fire department equipment \$2,500; value of buildings occupied \$300; total membership 63, volunteers; bell alarm. Chief, G. N. Becker.*

WATER SUPPLY—Source, cisterns and wells.*

Germantown, Montgomery Co., population 2,000; fire area 500 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton and rubber good 1,400 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department \$200; total membership 70, paid 2; bell alarm. Chief, Geo. Coleman.

WATER SUPPLY—Source, 11 wells and cisterns; system, pumping to 9 cisterns; pumping engines, dy cap 84,000 gals. Mayor, Adam Frank; village clerk, John C. Schaffer.

Girard, Trumbull Co., population estimated 1,000; buildings, wood and brick. No organized fire department—hand engine, 1 bucket brigade; hose, rubber good 100 ft; bell alarm.*

WATER SUPPLY—Source, cisterns, wells and river.

Glendale, Hamilton Co., population 1,444; buildings, wood, 1 and 1½ stories. Fire depart-

ment—1 chemical engine on wheels; total membership 60.*

WATER SUPPLY—Source, wells; system, pumping direct; pumping engines, 4; cap 1,250,000 gals; 40 hydrants; pipe 7½ mhes, 10 to 2 in dia; 38 valves; 55 taps; pressure 40 to 125 pounds; works owned by village; cost to construct \$34,000; ann expenses \$2,200. Secy, O. B. Going.

Glouster, Athens Co., population 2,500; fire area 500 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical hand engine combined, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 300 ft; value of fire department equipment \$800; 40 volunteer members; bell alarm. Chief, B. F. Achauer.

WATER SUPPLY—Source, creek and wells.*

Granville, Licking Co., population 1,386; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.*

WATER SUPPLY—Source, wells; system, gravity, pumping to reservoir, cap 180,000 gals; pumping engines, 4; cap 100,000 gals; pipe 5½ miles, 8 and 4 in; 37 hydrants; 15 valves; 127 taps; pressure 87 pounds; works owned by city; cost to construct \$18,000; ann expenses \$350. Supt, Wm. Kendall.

Greenfield, Highland Co., population 3,500; fire area 600 acres; buildings, iron, rock, wood and brick, 1 and 2 and 3 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; bell alarm; hose, good 800 ft; 30 volunteer members. Chief, E. J. Price.

WATER SUPPLY—Source, Paint creek; system, pumping to standpipe and direct; pumping engines, 4; cap 1,500,000 gals; standpipe cap 85,000; pipe 6½ miles; 57 hydrants; 17 valves; 200 taps; pressure 80 to 100 pounds; works owned by city; cost \$40,000. Chairman, H. L. Dickey.

Green Springs, Seneca Co., population estimated 1,000. Fire department—1 hand engine, 4 chemical extinguishers, 2 hose carriages; hose, rubber good 1,000 ft; total membership 25, volunteers. Chief engineer, H. Parker.*

WATER SUPPLY—Source, 4 cisterns, 1 reservoir.*

Greenville, Darke Co., population 6,000; fire area 400 acres; mercantile buildings, brick, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 1,500 ft, inferior 200 ft; 4 hoses, value \$1,200; value of fire department equipment \$8,000; value of buildings occupied \$10,000; total ann expenses of department \$3,000; total membership 40, paid full time 4, paid part time 20, volunteer members or call men 16; Gamewell alarm; 13 street boxes. Chief engineer, O. S. McKeon.*

WATER SUPPLY—Source, 8 cisterns, 7 wells.*

Greenwich, Huron Co., population 1,000; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 1 chemical engine on wheels, 1 hook and ladder truck, rubber buckets; hose, 600 ft cotton good. Chief, F. L. Ward.

WATER SUPPLY—Source, wells and cisterns. Town clerk, H. Burt.

Hamilton, Butler Co., population 17,565; fire area 6,000 acres; mercantile buildings, brick, 3 and 4 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose reels, 1 hose wagon; hose, cotton good 2,500 ft, inferior 600 ft, rubber good 900 ft; 7 hoses, value \$1,400; value of fire department equipment \$10,000; value of buildings occupied \$20,000; total ann expenses of department \$12,000; total membership 24, paid full time 10, paid part time 14; Gamewell and Stevens alarm; 33 street boxes. Chief engineer, John Boose.*

WATER SUPPLY—Source, driven wells; system, pumping to reservoir and direct; reservoir cap 6,750,000 gals; pumping engines, 4; cap 3,000,000 gals; 278 hydrants; pipe 35 miles, 4 to 20 in dia; 300 valves; 2,233 taps; pressure, domestic 90 pounds, fire same; works owned by city; cost to

construct \$360,000, to date \$380,000; ann expenses \$11,000. Supt. John Fisher.

Hamler, Henry Co., population 556; fire area 500 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical extinguisher, 1 hose carriage; hose, rubber good 300 ft, cotton good 200 ft; value of fire department equipment \$500; value of buildings occupied \$100; total ann expenses of department \$150; total membership 20; bell alarm. Chief engineer, Peter Gwilliom.

WATER SUPPLY—Source, wells and cisterns.

Harmar, Washington Co., population estimated 1,000; buildings, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hose carriage; hose, rubber 1,500 ft, wood 1,000 ft; value of fire department equipment \$5,500; value of buildings occupied \$2,000; total ann expenses of department \$300; total membership 25, paid 3; bell alarm. Chief engineer, Geo. Stephens.*

WATER SUPPLY—Source, river, 5 cisterns; dy cap 12,000 gals. Town clerk, W. Judd.*

Harrison, Hamilton Co., population 3,000; fire area 160 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft, leather good 250 ft, inferior 250 ft; value of fire department equipment \$5,500; value of buildings occupied \$17,000; total ann expenses of department \$300; total membership 35, volunteers; bell alarm. Chief engineer, W. H. Biddinger, Sr.

WATER SUPPLY—Source, Whitewater river and wells; system, pumping to standpipe and direct; cap of standpipe 93,000 gals; pumping engines, dy cap 1,000,000 gals; 25 hydrants; pipe 2 miles; 10 valves; pressure, domestic 50, fire 150 pounds; cost to construct \$54,280. Supt, J. P. Mittler.*

Hartwell, Hamilton Co., population 1,507; mercantile buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 engine, 1 hose reel, 1 hook and ladder truck; value of equipment \$1,300; total membership 31, volunteers; bell alarm. Chief fire marshal, Henry A. Hills.*

WATER SUPPLY—Source, wells, Wyoming O. Water Co.; system, pumping to reservoir and direct; hydrants 60; pipe 9 miles, 4 to 8 in; 54 valves; 30 taps; pressure 100 pounds; waterworks owned by city; original cost to construct \$25,000; ann expenses \$1,825. Supt or water com, W. W. Mers.

Hicksville, Defiance Co., population 2,500; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000 ft; value of fire department equipment \$1,500; total membership 40, volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, Frank F. Snyder.

WATER SUPPLY—Source, wells, 30 ft deep; system, pumping direct; pumping engines, 4; cap 1,500,000 gals; 37 hydrants; pipe 4 miles, 10 to 4 in dia; 20 valves; 156 taps; pressure, domestic 40, fire 100 pounds; works owned by city; cost to construct \$30,300; ann expenses \$950. Supt, M. Warner.

Hillsboro, Highland Co., population 4,300; fire area 1,800 acres; mercantile buildings, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carts, 3 hand hose carts, siamese couplings used; hose, rubber good 2,000 ft; 3 hoses; value of fire department equipment \$12,000; value of 2 buildings occupied \$6,000; total ann expenses of department \$4,500; total membership 34, paid full time 4, paid part time 10; Gamewell alarm; 10 street boxes. Chief engineer, C. F. Doner.

WATER SUPPLY—Source, 4 ponds, 41 cisterns; system, pumping to cisterns in dry weather, when not filled from roofs. Village clerk, N. H. Ayers.*

Hubbard, Trumbull Co., population 1,500; fire area 450 acres; buildings, brick and wood, 1 and

2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 900 ft, rubber good 250 ft, poor 250 ft; value of equipment \$550; value of buildings occupied \$350; total membership 20, volunteers; bell alarm. Chief engineer, L. E. Worley.

WATER SUPPLY—Source, wells, streams and private reservoirs.*

Hudson, Summit Co., population 1,200; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 350 ft; total membership 32, volunteers. Chief engineer, A. A. Melchiny.

WATER SUPPLY—Source, 13 cisterns.

Huron, Erie Co., population 1,380; fire area 1 sq acre; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$12,000; value of buildings occupied \$300; total membership 20, paid part time; bell alarm. Chief engineer, S. N. Lennon.

WATER SUPPLY—Source, wells and cisterns. (Will build waterworks.)

Ironton, Lawrence Co., population 10,000; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 8 hose carriages; hose, rubber good 2,800 ft; total membership 65, volunteers. Chief engineer, Wm. George.*

WATER SUPPLY—Source, Ohio river; system, direct pumping; pumping engine, dy cap 3,000,000 gals; 171 hydrants pipe 14 miles, 4 to 12 in dia; 92 valves; 1,500 taps; pressure, domestic 45, fire 90 pounds; waterworks owned by city; cost to construct \$180,000; ann expenses \$9,000. Supt, E. Lawton.

Jackson, Jackson Co., population about 5,500; fire area 600 acres; mercantile buildings, brick and wood (metal roofs), 2 and 3 stories; private, brick, stone and wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 fire ladder, 1 hose carriage; hose, rubber good 1,000 ft, inferior 750 ft; 4 horses, value \$700; value of fire department equipment \$10,500; value of buildings occupied \$3,000; ann expenses for past year \$2,800; total membership 12, paid full time 3, part time 9; bell alarm. Chief engineer, John H. Harding.

WATER SUPPLY—Source, 17 cisterns and wells. (Water works contemplated.)

Jamestown, Greene Co., population 1,200; fire area 300 acres; buildings, brick, stone and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 900 ft, cotton 100 ft; value of fire department equipment \$900; value of buildings occupied \$15,000; total membership 85, paid part time 3, remainder volunteers; bell alarm. Chief engineer, Dr. F. W. Ogan.

WATER SUPPLY—Source, wells, 6 cisterns, esp 400 barrels each.

Jefferson, Ashtabula Co., population 1,346; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 100 ft, rubber good 200 ft, inferior 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$16,000; total ann expenses of department \$25; total membership 33, volunteers. Chief, R. E. Ives.

WATER SUPPLY—Source, wells and 7 cisterns.*

Kent, Portage Co., population 3,501; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 and 3 stories; brick buildings inside fire limits; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 2,300 ft; Union fire alarm system; 9 street boxes; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, D. M. Marshall.*

WATER SUPPLY—Source, Cook well, 4 x 8 in; system, pumping to standpipe; standpipe cap 10,000,000 gals; pumping engine, dy cap 3,000,000 gals; 79 hydrants; pipe 12 miles, 12 to 4 in dia; 56 valves; 342 taps; pressure, domestic 100, fire 150

pounds; works owned by company; ann expenses \$4,800. Supt, Alexander B. Young.

Kenton, Hardin Co., population 7,000; fire area 640 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, siamese couplings used; hose, rubber good 1,200 ft, inferior 1,000 ft; 4 horses, value \$800; value of fire department equipment \$3,200; value of buildings occupied \$12,000; total ann expenses of department \$2,400; total membership 22, paid part time 20, volunteers 18; electric connection with waterworks. Chief, W. W. Young.*

WATER SUPPLY—Source, well; system, direct pumping; pumping engine, dy cap 1,500,000 gals; 71 hydrants; pipe 8 miles, 8 to 14 in dia; 10 valves; 3 meters; pressure, domestic 60, fire 85 pounds; waterworks owned by city; cost to construct \$84,000; ann expenses \$3,500. Pres, W. W. Young; supt, W. A. Ross.

Kingsville, Ashtabula Co., population estimated 900; fire area 320 acres; buildings, wood, 2½ stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 36 pails; value of fire department equipment \$125; total membership 36; bell alarm.

WATER SUPPLY—Source, wells and cisterns.

Laurelton, Fairfield Co., population 8,000; fire area 2 miles sq; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, several chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 500 ft, rubber good 3,000 ft; 2 horses, value \$300; value of fire department equipment \$20,000; value of buildings occupied \$6,000; total ann expenses of department \$1,800; total membership 14, paid part time; bell alarm. Chief engineer, F. Wells.

WATER SUPPLY—Source, springs; system, pumping to standpipe; standpipe cap 140,000 gals; pumping engine, dy cap 3,000,000 gals; hydrants 72; pipe 8 miles, 4 to 12 in dia; 36 valves; 450 taps; pressure, domestic 56, fire 90 pounds; works owned by city; cost to construct \$50,000, cost to date \$69,000; ann expenses \$1,800. Supt, Louis J. Snyder.

Larue, Marion Co., population estimated 1,000; fire area 300 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 8 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon, siamese couplings used; hose, rubber inferior 400 ft, linen good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,200; total ann expenses of department \$600; total membership 100, volunteers; bell alarm. Chief engineer, R. H. Mapea.*

WATER SUPPLY—Source, river, tanks and 7 cisterns; cap of cisterns 25,000 gals dy; 3 hydrants; pipe 4 in dia. Town clerk, M. Longshore.*

Lebanon, Warren Co., population 3,050; fire area 40 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 3,000 ft, inferior 500 ft, leather inferior 300 ft; value of fire department equipment \$10,000; total ann expenses of department \$500; total membership 103, paid full time 3, volunteers 100; bell alarm. Chief engineer, Wm. A. Coyna.*

WATER SUPPLY—Source, wells and cisterns.*

Leostonia, Columbiana Co., population about 3,500; fire area 1,000 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; value of fire department equipment \$1,475; total membership 85, volunteers. Chief engineer, John Hartman.

WATER SUPPLY—Source, springs; system, gravity and pumping to reservoir; storage reservoir, cap 500,000 gals; pumping engine, dy cap 2,000,000 gals; pipe 6, 7-8 miles, 12 to 4 in dia; 64 hydrants; valves 56; 257 taps; pressure, domestic 78, fire 120 pounds; works owned by city; cost to construct \$43,000, cost to date \$46,034; ann expenses \$2,000. Supt, Wm. Schweitzer.

Leipsic, Putnam Co., population 1,333; fire

area 375 acres; buildings, brick, wood and stone, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hand engine, 1 chemical engine, 1 hose carriage; 700 ft good rubber hose; value of fire department equipment \$1,200; value of buildings occupied \$200; expenses for past year \$1,700; membership 42, volunteers; bell alarm; 1 fire company. Chief engineer, D. R. Shiffert.*

WATER SUPPLY—Source, 2 cisterns, cap 500 barrels each; 1 hydrant supplied by tank, cap 25 barrels. Town clerk, C. C. Cass.

Lima, Allen Co., population 15,987; fire area 900 acres; buildings, brick and wood, 2 to 5 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 1 hose carriage, 2 hose wagons; hose, cotton good 4,500 ft; 7 horses, value \$1,200; value of equipment \$9,975; of buildings occupied \$22,000; Gamewell alarm; 30 street boxes; total membership 20, paid full time 9, 2 men part time, call men 16. Chief engineer, James Ogden.

WATER SUPPLY—Source, surface water; system, gravity to storage reservoir, thence direct pumping; reservoirs cap 140,000,000 gals; pumping engines, dy cap 6,000,000 gals; 205 hydrants; pipe 32 miles, 4 to 20 in dia.; 305 valves; 1,797 taps; pressure, domestic 30, fire 70 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$338,000; ann expenses \$7,652. Supt, D. E. Fritz.

Lockland, Hamilton Co., population 1,500; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance.*

WATER SUPPLY—Source, wells. Village clerk, E. Buchanan.*

Logan, Hooking Co., population 3,500; fire area 575 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; shingle and slate roofs; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,500 ft, inferior 1,200 ft; 2 horses, value \$400; value of fire department equipment \$7,000; value of buildings occupied \$2,000; total expenses of department \$1,100; total membership 65, paid full time 2, paid part time 4, 59 volunteers; bell alarm. Chief engineer, William Waner.

WATER SUPPLY—Source, canal, 7 cisterns, cap 48,000 barrels.

London, Madison Co., population 4,000; fire area 1,440 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage, slansse couplings used; hose, cotton good 2,000 ft, inferior 700 ft; 3 horses; value of fire department equipment \$9,000; 1 building occupied; total membership 28, paid full time 4, paid part time 28. Chief engineer, J. M. Boyer.*

WATER SUPPLY—Source, 3 artesian wells; system, pump to standpipe and direct, cap 300,000 gals; pumping engines, dy cap 2,500,000 gals; 101 hydrants; pipe 11 miles, 4 to 14 in dia.; 81 valves; 250 taps; pressure, domestic 50, fire 100 pounds; works owned by company; cost to construct \$108,000, cost to date \$110,000; ann expenses \$3,000. Supt, Frank C. Smith.

Lorain, Lorain Co., population 6,000; fire area 1 sq mile; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,200 ft, rubber good 300 ft; 4 horses; value of fire department equipment \$1,000; value of buildings occupied \$400; total membership 20, volunteers. Chief engineer, E. A. Ault.

WATER SUPPLY—Source, Lake Erie; system, direct pumping; pumping engines, dy cap 3,000,000 gals; 55 hydrants; pipe 18 miles, 2 to 12 in dia.; 150 valves; 825 taps; pressure, domestic 60, fire 150 pounds; waterworks owned by town; cost to construct \$65,000; ann expenses \$2,500. Supt, T. C. Norcross.

Londonville, Ashland Co., population 1,500; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,800 ft; value of fire department

equipment \$3,000; total membership 80, volunteers; bell alarm. Chief engineer, J. B. Hamm.

WATER SUPPLY—Source, 13 cisterns and river, cap 300 to 500 barrels each. Town clerk, Ned L. Ruth.

Louisville, Stark Co., population 1,350; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 chemical engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton 800 ft; value of equipment \$1,600; value of buildings occupied \$1,000; membership 30, volunteers; bell alarm. Chief engineer, J. S. Myers.

WATER SUPPLY—Source, 15 public cisterna, cap 150 bbls each, located 500 ft apart. Town clerk, F. E. Favret.

Loveland, Clermont Co., population 900; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; roofs mostly iron. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 100 ft, rubber good 500 ft, poor 100 ft; value of fire department equipment \$2,800; value of buildings occupied \$15,000 (town hall); total ann expenses of department \$650; total membership 30, volunteers; bell alarm. Chief, Wm. Voris.

WATER SUPPLY—Source, river and cisterns. Town clerk, J. V. Cushing.

Lyons, Fulton Co., population 219. No organized fire department. E. P. Cole.

WATER SUPPLY—Source, canal, 4 cisterns; 3 have cap of 1,000 barrels each, 1 cap of 1,500 barrels. Town clerk, F. A. Slater.

McArthur, Vinton Co., population 888; mercantile buildings, brick, tin and slate roofs, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, bucket, hooks and ladders.*

WATER SUPPLY—Source, private cisterns and wells. Village clerk, J. Ira Bell.*

McComb, Hancock Co., population 1,310; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; 4 horses; value of fire department equipment \$6,000; total membership 30, volunteers; bell alarm. Chief, T. C. Morrison.*

WATER SUPPLY—Source, cisterna.*

McConnellsville, Morgan Co., population 1,900; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; iron and slate roofs; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels; hose, cotton good 200 ft; value of fire department equipment \$800; total membership 20, volunteers; bell alarm. Chief engineer, C. L. Alderman.

WATER SUPPLY—Source, cisterns, cap 500 barrels. Town clerk, Geo. Birch.

Madison, Lake Co., population 738; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; no fire department.

WATER SUPPLY—Source, wells and cisterns. Town clerk, Homer H. Kimball.

Manchester, Adams Co., population 2,200; fire area 350 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 hook and ladder truck and buckets; value of fire department equipment \$250; total membership 33; whistle and bell alarm. Capt, H. N. Edgington.

WATER SUPPLY—Source, wells and cisterns.

Mansfield, Richard Co., population 15,000; fire area 200 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 3 hose wagons; hose, cotton good 4,500 ft, rubber inferior 500 ft; 10 horses, value \$2,500; value of fire department equipment \$10,000; value of buildings occupied \$20,000; total ann expenses of department \$8,000; total membership 20, paid full time 7, paid part time 13; Gamewell alarm; 36 street boxes. Chief engineer, Geo. Kniflock. (2 new stations, 1 chemical, 1,500 ft hose contemplated.)

WATER SUPPLY—Source, 2 springs, 16 artesian wells; system, direct pumping, cap of reservoirs 2,000,000 gals; pumping engines, dy cap 7,500,000

gals; 165 hydrants; pipe 34 miles, 4 to 16 in dia; 176 valves; 1,440 taps; pressure, domestic 110, fire 85 to 130 pounds; works owned by city; cost to construct \$198,000, cost to date \$250,000; ann expenses \$7,000. Supt, Wm. Ritter.

Marletta, Washington Co., population 8,273; mercantile buildings, brick, 3 stories; private, brick, stone and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 5 hose carriages, siamese couplings used; hose, rubber good 2,000 ft, inferior 1,000 ft; 4 horses; value of fire department equipment \$9,000; 2 buildings occupied; total membership 50, volunteers; telephone and bell alarm. Chief engineer, Henry Beat.*

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir, cap 1,500,000 gals; pumping engines, dy cap 2,500,000 gals; 137 hydrants; pipe 15 miles, 4 to 12 in dia; 100 valves; pressure, domestic 70 to 95, fire 140 pounds or more; 300 taps; works owned by city; cost to construct \$100,000; ann expenses \$3,500. Supt, J. B. West.*

Marion, Marion Co., population 9,000; fire area 2 by 2½ miles sq; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; causes of fire investigated. Fire department—1 steam fire engine (reserve), 1 hand engine (reserve), 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, siamese couplings used; hose, cotton 3,000 ft; 3 horses, value \$500; value of equipment \$7,000; value of buildings occupied \$2,500; total expenses for past year \$2,500; total membership 40, paid full time 4, paid part time 36, bell alarm; 3 hose companies, 1 hook and ladder company. Chief engineer, William Fies.

WATER SUPPLY—Source, gravel bed; system, pumping to standpipe and direct; pumping engines, dy cap 3,000,000 gals; 150 hydrants; 164 valves; pipe 14½ miles, 4 to 16 in dia; pressure, domestic 55, fire 100 to 125 pounds. Supt, H. C. Stillwell.

Martin's Ferry, Belmont Co., population 7,000; fire area 3-4 by 1-3 mile; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,400 ft, poor 1,800 ft; value of equipment \$2,500; value of buildings occupied \$1,200; total ann expenses department \$900; total membership 86, volunteers; Gamewell alarm; 18 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, A. R. Ong.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir and direct; reservoir cap 2,500,000 gals; pumping engines, dy cap 1,250,000 gals; 100 hydrants; pipe 15 miles, 4 to 12 in dia; 193 valves; 1,325 taps; pressure 65 to 120 pounds; waterworks owned by city; cost to construct \$120,000, to date \$181,100; ann expenses \$5,584.47. Supt, Chas. S. Moore.

Marysville, Union Co., population 3,060; fire area 700 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; tin and iron roofs; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose wagon, 1 hose cart, siamese couplings used; hose, cotton good 400 ft, rubber good 500 ft; 2 horses, value \$300; value of fire department equipment \$10,000; value of buildings occupied \$20,000; total ann expenses of department \$4,000; total membership 16, paid part time; bell alarm. Chief engineer, L. Zettan.

WATER SUPPLY—Source, driven wells; system, pumping direct; pumping engines, dy cap 2,000,000 gals; 72 hydrants; pipe 6 3-4 miles, 12 to 4 in dia; 67 valves; pressure 60 to 75 pounds; works owned by company; cost to construct \$75,000; ann expenses \$5,100. Pres and supt, J. F. Zuernker.*

Massillon, Stark Co., population 12,000; fire area 1½ miles square; mercantile buildings, brick and stone, 3 to 5 stories; private, wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, rubber good 2,000 ft, inferior 800 ft, cotton good 1,000 ft, inferior 500 ft; 2 horses, value \$700; total membership 90, paid full time 3, volunteers 87; Gamewell alarm; 21 street boxes. Chief engineer, A. Burkle.

WATER SUPPLY—Source, artesian wells, Sippola lake; system, gravity and pumping to standpipe; reservoir cap 30,000,000 gals; standpipe cap 550,000 gals; pumping engines, dy cap 4,500,000 gals; 245 hydrants; pipe 21 miles, 4 to 16 in dia; 145 valves; 1,026 taps; pressure, domestic 75, fire 125 pounds; pressure recording gauge; waterworks owned by company. Supt, A. W. Inman.

Maumee, Lucas Co., population 1,663; fire area 700 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 300 ft; value of equipment \$400; 10 volunteer members. City marshal, J. N. Smith.

WATER SUPPLY—Source, Maumee river through canal.*

Mechanicsburg, Champaign Co., population 2,000; fire area 700 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 3 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$400; total ann expenses of department \$100; total membership 20, volunteers; bell alarm. Chief engineer, H. H. Darling.

WATER SUPPLY—Source, cisterns, dy cap 500 gals. Village clerk, T. E. Shepherd.*

Medina, Medina Co., population 3,000; fire area 150 acres; buildings, brick and wood, 2 and 3 stories; tin roofs used; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 600 ft, inferior 250 ft, cotton good 800 ft; 4 horses, value \$600; value of fire department equipment \$6,000; value of buildings occupied \$3,500; expenses for past year \$625; total membership 30, paid, Chief engineer, A. A. Fosskett.

WATER SUPPLY—Source, 22 cisterns, wells and tank; system, pumping to reservoir, cap 58,500 gals; 26 hydrants; pipe 2 miles, 8 and 4 in dia; 12 valves; pressure 80 pounds; works owned by city; cost to construct \$18,000; ann expenses \$600. Supt, W. G. Smith.

Mendon, Mercer Co., population 500; fire area 30 acres; buildings, wood, 1 and 1½ stories; shingle roofs used; no fireworks ordinance. Fire department—1 hook and ladder truck; value of fire department equipment \$250; total membership 16, volunteers; bell alarm. Chief, W. F. Patner.

WATER SUPPLY—Source, river and cisterns.

Miamisburg, Montgomery Co., population 4,000; fire area 600 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft, leather good 400 ft, cotton good 1,200 ft; value of fire department equipment \$6,000; value of buildings occupied \$3,000; total ann expenses of department \$400; total membership 50, volunteers. Chief engineer, N. Hippert.

WATER SUPPLY—Source, river, canal and fire cisterns. Factories have hydrants, pumps and 2 tanks for fire protection.

Middleport, Meigs Co., population 3,300; fire area 150 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,400 ft, inferior 1,000 ft; membership 18, volunteers; bell alarm. Chief engineer, T. B. Hyell.

WATER SUPPLY—Source, wells and cistern.

Middletown, Butler Co., population 11,000; fire area 1,200 acres; mercantile buildings, brick and wood, 2, 3 and 4 stories; private, wood and brick, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, all kinds, 2 hose wagons; hose, cotton good 4,200 ft, inferior 200 ft; 4 horses, value \$500; value of fire department equipment \$8,200; value of buildings occupied \$10,000; total ann expenses of department \$3,554; total membership 24, paid full time 4, paid part time 20; Gamewell alarm; street boxes 22. Chief engineer, Jas. C. Brereton.

WATER SUPPLY—Source, hydraulic and open

wells; system, direct pumping; pumping engines, dy cap 5,000,000 gals; 320 hydrants; pipe 12 miles, 12 to 4 in dia; 170 valves; 900 taps; pressure, domestic 60, fire 120 pounds; waterworks owned by city; cost to construct \$100,000; ann expenses \$3,000. Supt, J. E. Weber.

Millan, Erie Co., population 627; fire area 10 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, several private chemical extinguishers, 1 hose carriage; hose, rubber good 800 ft, inferior 250 ft, leather good 300 ft; value of buildings occupied \$100; bell alarm. Secy, F. A. Roberts.

WATER SUPPLY.—Source, surface water; system, pumping direct; reservoir cap 400,000 gals; pumping engines, dy cap 1,000,000 gals; 36 hydrants; pipe 3 1/4 miles, 4 to 8 in dia; 13 valves; 60 taps; pressure, domestic 20, fire 150 pounds; waterworks owned by city; cost to construct \$16,000; ann expenses \$1,100. Pres and supt, Henry Keller.

Millersburg, Holmes Co., population 2,500; fire area 200 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 1 and 2 stories; slate roofs; fireworks ordinance. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, inferior 300 ft, rubber good 1,000 ft, linen good 300 ft; value of fire department equipment \$5,000; value of buildings occupied \$25,000; total membership 90, volunteers. Chief engineer, Lelux Dix.

WATER SUPPLY.—Source, cisterns. Village clerk, J. G. Walkup.

Milnerva, Stark Co., population 1,200; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; shingle and slate roofs. Fire department—2 hose carriages; hose, cotton inferior 200 ft, rubber good 600 ft; value of buildings occupied \$600; total membership 17, volunteers; bell alarm. Chief, Joseph H. Milner.

WATER SUPPLY.—Source, well on bank of creek, also creek; system, pumping to tank, cap 63,000 gals; pumping engines, dy cap 600,000 gals; 35 hydrants; pipe 5 miles; 18 valves; 180 taps; pressure 65 pounds; waterworks owned by city; cost to construct \$12,000; ann expenses \$500. Supt, John C. Young.

Minster, Auglaize Co., population 1,300; fire area 400 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon, buckets; hose, cotton good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$5,000; total ann expenses of department \$100; total membership 40, volunteers; bell alarm. Chief engineer, Wm. Nienberg.

WATER SUPPLY.—Source, canal and cisterns.

Monroeville, Huron Co., population 1,800; fire area 1 sq mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; slamese couplings used; hose, cotton good 1,000 ft, rubber good 1,000 ft, inferior 300 ft; value of fire department equipment \$6,000; value of fire department buildings \$8,000; expenses for past year \$350; membership 20, volunteers; bell alarm. Chief, Jos. Luik.

WATER SUPPLY.—Source, wells, cisterns and river which runs through village.

Montpelier, Williams Co., population 1,293; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$1,800; value of buildings occupied \$4,600; total ann expenses of department \$300; total membership 60, volunteers; bell alarm. Chief engineer, John Bager.*

WATER SUPPLY.—Source, river; 3 reservoirs, cap 200 bbls each. Town clerk, W. E. Boyer.*

Mt. Gilead, Morrow Co., population 1,800 to 1,700; fire area 500 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in business portion; fireworks ordinance. Fire department—1 hand engine, 3 chemical extinguishers, 1 hook

and ladder truck, 2 hose carriages, 3 ladders and 4 dos wood and rubber buckets; hose, cotton good 500 ft, rubber good 750 ft, inferior 450 ft; value of fire department equipment \$4,500; value of buildings occupied \$2,000; total ann expenses of department \$600; total membership 50, paid part time; bell alarm; 5 fire companies, 1 engine, 1 hook and ladder company, 1 hose company. Chief engineer, John Dumbaugh.

WATER SUPPLY.—Source, large cisterns and springs are 1/2 mile from centre of town; system, pumping direct; dy cap 25,920 gals; pipe 2 1/4 miles, 1 1/2 to 1 1/4 in dia; waterworks owned by city; cost to construct \$1,200; ann expenses \$100. Chairman, M. B. Talmage.

Mt. Sterling, Madison Co., population 800; fire area 300 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine, 1 hose carriage, 1 hook and ladder truck; hose, cotton good 700 ft; value of fire department equipment \$1,500; 50 volunteers; bell alarm. Chief, Wm. McCollister.

WATER SUPPLY.—Source, wells and cisterns.

Mt. Vernon, Knox Co., population 8,225; fire area 2 miles; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,200 ft, rubber 1,400 ft; 4 horses, value \$600; value of fire department equipment \$6,000; 4 buildings occupied \$5,000; total ann expenses of department \$5,000; total membership 6, paid full time; bell and telephone alarm. Chief engineer, U. G. Pickard.

WATER SUPPLY.—Source, artesian wells; system, pumping to standpipe, cap 250,000 gals; pumping engines, dy cap 2,000,000; 93 hydrants; pipe 15 1/2 miles, 4 to 12 in dia; 62 valves; pressure 85 to 115 pounds; waterworks owned by city; cost to construct to date \$95,000; ann expenses \$4,500. Supt, Colin W. Koons.

Napoleon, Henry Co., population 2,764; fire area 300 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, rubber inferior 300 ft; value of fire department equipment \$6,000; value of buildings occupied \$1,000; total ann expenses of department \$890; total membership 50, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Joseph Koller.

WATER SUPPLY.—Source, wells; system, pumping to cisterns by steamer. Mayor, David Meekison.

Navarre, Stark Co., population 1,050; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 700 ft; value of fire department equipment \$1,200; value of buildings occupied \$2,000; total membership 40; bell alarm. Chief engineer, G. A. Sisterhan.

WATER SUPPLY.—Source, canal and cisterns.*

Nelsonville, Athens Co., population 4,558; fire area 5 sq miles; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck; value of fire department \$500; value of buildings occupied \$200; membership 50, volunteers. Chief of fire department, John F. Welch.

WATER SUPPLY.—Source, springs. A system of works begun. Village clerk, Eben Wilson.

Newark, Licking Co., population 14,500; fire area 20,000 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 3,500 ft, poor 500 ft; 7 horses, value \$225 each; value of fire department equipment \$12,500; value of buildings occupied \$5,000; total ann expenses of department \$5,760; total membership 20, paid full time 10; Gamewell alarm; 30 street boxes. Chief engineer, L. Bousch.

WATER SUPPLY.—Source, surface wells; system, pumping to reservoir; reservoir cap 3,500,000 gals; pumping engines, dy cap 1,500,000 gals each; 252

hydrants: pipe 25½ miles, 6 to 16 in dia; 152 valves; pressure, domestic 115 pounds, fire same; 1,000 taps; works owned by company; cost to construct \$350,000; ann expenses \$7,250. Supt, Wm. Allen Veach.

New Athens, Harrison Co., population 600; fire area 50 acres; buildings, brick and wood, 2 stories; tin and slate roofs; fireworks ordinance. Fire department—1 hand engine, 4 ladders, 1 hose carriage; hose, cotton good 300 ft; value of fire department equipment \$400; total ann expenses of department \$65; 25 volunteer members; bell alarm. Chief, Ed. H. Hughes.

WATER SUPPLY—Source, cisterns; system, pumping to tanks, 6 tanks, cap 250 bbls each; pressure 100 pounds.

New Bremen, Auglaize Co., population 1,239; fire area 1 sq mile; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; on new 2-story and business buildings iron roofs required. Fire department—3 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,000 ft, inferior 400 ft, rubber good 1,000 ft, inferior 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,500; total ann expenses of department \$450; total membership 135, volunteers; bell alarm; 4 fire companies. Chief, Wm. Schulenberg.

WATER SUPPLY—Source, wells, 8 cisterns and canal.

New Comerstown, Tuscarawas Co., population 1,500; fire area 200 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 Howe chemical and hand engine combined, 1 hook and ladder truck, 1 hose carriage, 1 crank pump; hose, rubber good 200 ft, inferior 100 ft, cotton good 500 ft; value of fire department equipment \$1,600; total membership 40, volunteers; bell alarm. Chief engineer, L. S. Sargent.

WATER SUPPLY—Source, Ohio canal, cisterns and wells.

New Lexington, Perry Co., population 1,470; buildings, wood and brick, 2 stories; fireworks ordinance. Fire department—1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck; hose, good 1,000 ft; total membership 40, volunteers. Chief engineer, Jas. Welland.

WATER SUPPLY—Source, 9 large cisterns.

New Lisbon, Columbiana Co., population 2,278; fire area 400 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, leather good 1,000 ft, inferior 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$700; total ann expenses of department \$50; total membership 55, volunteers; bell alarm; 2 fire companies. Chief, L. J. Holton, chairman of fire com, F. P. Moore.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 319,000 gals; pumping engines, dy cap 1,000,000 gals; 53 hydrants; pipe 4½ miles, 4, 6, 10 in dia; meters 20 valves; pressure, domestic 100 pounds; waterworks owned by town; cost to construct \$20,000; ann expenses \$1,500. Supt, C. F. Briggs.*

New London, Huron Co., population about 1,200; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber new 500 ft, inferior 350 ft; value of fire department equipment \$1,000; value of buildings occupied \$3,000; total ann expenses of department \$125; total membership 7, paid part time; bell alarm. Chief engineer, A. M. Turner. (Chemical engine and hose cart contemplated.)

WATER SUPPLY—Source, 2 large cisterns and 1 well.

New Philadelphia, Tuscarawas Co., population 4,456; fire area 400 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 2 hose couplings used; hose, cotton good 1,000 ft, inferior 300 ft, rubber good 500 ft; value of fire department equipment \$1,000; to-

tal ann expenses of department \$1,100; total membership 75, part paid; bell alarm. Chief engineer, S. F. Hensel.*

WATER SUPPLY—Source, wells and Tuscarawas river; system, pumping to reservoir, cap 2,000,000 gals; pumping engines, dy cap 2,000,000 gals; 98 hydrants; pipe 9 2-10 miles, 12 in dia, and less; 7 meters; pressure 100 pounds; waterworks owned by company; cost to construct \$100,000. Supt, D. B. Ludwig.*

New Richmond, Clermont Co., population 2,379; fire area 720 acres; mercantile buildings, brick and wood, 1 to 4 stories; private, wood, brick, stone and iron, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 100 ft, rubber good 550 ft, inferior 100 ft; 3 buildings occupied; total ann expenses of department \$200; total membership 80, part paid; bell alarm.*

WATER SUPPLY—Source, Ohio river and cisterns. Mayor, L. M. Dawson.

New Straitsville, Perry Co., population 2,782; fire area 950 acres; buildings, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hand engine, 3 chemical extinguishers, 2 hose carriages, 2 hose couplings used; hose, rubber 1,000 ft, poor 50 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,000; total ann expenses of department \$50; total membership 29, paid part time 2, volunteers 29; bell alarm. Chief, Marion Truex.

WATER SUPPLY—Source, 5 cisterns, creeks; 3 reservoirs, cap 80,400 gals.*

Newton Falls, Trumbull Co., population 724; fire area 500 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 Remington horse power engine, 9 chemical extinguishers, 2 hose carriages; hose, rubber good 100 ft, cotton good 900 ft; value of fire department apparatus \$1,800; value of buildings occupied \$3,000; total ann expenses of department \$150; total membership 23, part paid. Chief engineer, C. E. Starr.

WATER SUPPLY—Source, rivers, 9 cisterns and wells. Mayor, John N. Ensign.

Niles, Trumbull Co., population 5,376; fire area 1 1-4 x 1 1-2 miles; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage, 1 hose wagon; hose, cotton good 500 ft, poor 500 ft; 2 hoses; value of fire department equipment \$7,500; value of buildings occupied \$7,000; total ann expenses of department \$2,000; total membership 12, paid full time 1; telephone and whistle alarm. Chief engineer, Samuel Mosby.

WATER SUPPLY—Source, wells; system, pumping direct and to reservoir; reservoir cap 1,250,000 gals; pumping engines, dy cap 1,250,000 gals; 66 hydrants; pipe 11 miles, 14 to 4 in; 20 valves; 303 taps; pressure 87½ pounds; waterworks owned by city; cost to construct \$60,000, to date \$75,000; ann expenses \$350. Clerk, J. B. Campbell.

North Amherst, Lorain Co., population 1,648; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam engine, 1 hand engine, 1 hook and ladder truck, 2 hose carts; hose, rubber good 1,200 ft, 600 ft cotton new, leather good 1,000 ft, inferior 300 ft; total membership 34, volunteers, paid for services; marshal and chief empowered to compel service at fires; bell alarm. Chief engineer, A. E. Stinwald.

WATER SUPPLY—Source, springs, 3 cisterns; system, gravity; 13 reservoirs, dy cap 100,000 gals; pipe ¼ mile, 4 in dia; ann expenses \$150. Town clerk, A. E. Stinwald.*

North Baltimore, Wood Co., population 3,000; fire area 30 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, linen (rubber lined) good 1,500 ft; value of fire department equipment \$1,200; value of buildings occupied \$500; ann expenses \$1,700; membership 27, volunteers. Chief, H. D. Lehart.

WATER SUPPLY—Source, drilled wells; system, pumping direct; standpipes, cap 100,000 gals; pumping engines, dy cap 2,000,000 gals; 75 hydrants;

pipe 7½ miles, 12 to 4 in dia; quality of water good; pressure, domestic 60, fire 80 pounds; cost construct to date \$96,000. Supt, secy and treas. A. D. Dawning.*

Norwalk, Huron Co., population 8,000; fire area 1,280 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; tin and iron roofs; causes of fire investigated. Fire department—1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, rubber good 200 ft, cotton new 1,500 ft, poor 1,000 ft; 4 horses, value \$600; value of fire department equipment \$4,000; value of 6 buildings occupied \$3,000; total ann expenses of department \$2,800; total membership 30, part paid, 2 paid full time; steam whistle, bell and telephone alarm. Chief engineer, W. O. Smith.

WATER SUPPLY—Source, Huron river and Cole creek; system, direct pumping; reservoir cap 15,000,000 gals; pumping engines, dy cap 1,500,000 gals; 118 hydrants; pipe 13½ miles, 3 to 16 in dia; 70 valves; 600 taps; pressure, domestic 45, fire 100 to 110 pounds; works owned by city; cost to construct to date \$125,000; ann expenses \$6,000. Secy and supt, A. F. Rowland.

Oak Harbor, Ottawa Co., population 2,000; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; iron, shingle and slate roofs. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 850 ft, poor 150 ft, rubber good 900 ft, poor 100 ft, linen good 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$11,000; total ann expenses of department \$600; total membership 21, paid part time 21; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, Geo. Kaler.

WATER SUPPLY—Source, river, wells and cisterns. Town clerk, E. M. Goody.

Oberlin, Lorain Co., population 4,376; fire area 2,600 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden and tin roofs; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon, 1 fire patrol wagon; hose, rubber good 1,500 ft, cotton good 250 ft; value of fire department equipment \$3,000; total membership 41, paid full time; 1 hook and ladder company, 3 hose companies. Chief engineer, L. L. Munson. (500 ft new cotton hose, fire alarm system, 2 Babcocks, set of light ladders contemplated.)

WATER SUPPLY—Source, East Branch Vermillion river; system, pumping to standpipe, cap 63,000 gals; reservoir, cap 750,000 gals; 6 pumping engines, dy cap 2,000,000 gals; 66 hydrants; pipe 7 miles, 4 to 8 in dia; 42 valves; 328 taps; pressure, domestic 40, fire 80 pounds; waterworks owned by city; cost to construct \$61,000; cost to date \$66,000; ann expenses \$2,200. Supt, W. B. Gerrish.

Orrville, Wayne Co., population 2,000; fire area 300 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,400 ft; value of fire department equipment \$4,000; value of buildings occupied \$10,000; total ann expenses of department \$125; total membership 76, volunteers; bell alarm. Chief engineer, Geo. I. Peters.

WATER SUPPLY—Source, 4 artesian wells; system, pumping direct; 3 pumping engines, dy cap 750,000 gals each; 35 hydrants; pipe 4½ miles, 4 to 10 in; 28 valves; waterworks owned by village; cost to construct \$25,000. Chairman of water com, A. N. Brenneman.

Ottawa, Putnam Co., population 2,600; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; 2 horses; total membership 55, paid part time 15, volunteers 40. Chief, J. W. Brown.

WATER SUPPLY—Source, wells, cisterns and river. Mayor, T. J. Sweeney.

Oxford, Butler Co., population 2,072; fire area 2-4 of a mile; mercantile buildings, brick, stone and iron, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire

department—1 steam fire engine, 1 hand engine, 10 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, siamese couplings used; hose, rubber good 2,300 ft, leather good 600 ft; value of fire department equipment \$8,000; value of buildings occupied \$10,000; total ann expenses of department \$1,840; total membership 56, volunteers; automatic alarm; 4 boxes. Chief engineer, J. C. Duerr.

WATER SUPPLY—Source, 14 cisterns. Town clerk, J. A. Kennedy.

Palmeville, Lake Co., population 5,500; buildings, brick and wood, 2 to 4 stories; fireworks ordinance; wooden roofs not permitted in fire limits; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, siamese couplings used; hose, cotton 3,000 ft; 3 horses, value \$300; value of fire department equipment \$10,000; value of buildings occupied \$10,000; total ann expenses of department \$2,000; total membership 15. Chief engineer, M. Eugene Crofoot.

WATER SUPPLY—Source, Lake Erie; system, pumping to standpipe and direct; standpipe cap 187,200 gals; pumping engines, dy cap 3,000,000 gals; 72 hydrants; pipe 15 miles; 35 valves; pressure, domestic 40, fire 70 pounds; waterworks owned by company; cost to construct \$128,000; ann expenses \$5,000. Supt, B. F. Stephens.

Paulding, Paulding Co., population 3,500; fire area 60 acres; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 hook and ladder trucks, 2 hose carriages; hose cotton good 1,500 ft, poor 500 ft; value of fire department equipment \$4,500; value of buildings occupied \$2,400; total membership 37, volunteers; bell alarm. Chief engineer, Frank Miller.

WATER SUPPLY—Source, not reported.

Perrysburg, Wood Co., population 1,837; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 2,000 ft; value of fire department equipment \$2,100; value of buildings occupied \$800; total ann expenses of department \$450; total membership 36, volunteer members; bell alarm. Chief engineer, Andrew Beach.

WATER SUPPLY—Source, Maumee river, 5 fire cisterns, cap 200 bbls each, R. E. tank, cap 1,500 bbls, also private wells and cisterns.

Piqua, Miami Co., population 13,000; fire area 1,500 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine, 2 hook and ladder trucks, 2 hose carriages, 2 hose wagons, siamese couplings used; hose, cotton good 3,000 ft, rubber good 850 ft; 10 horses, value \$2,000; of fire department equipment \$13,102; value of buildings occupied \$10,000; total membership 11, paid full time 11; telegraph, telephone and bell alarm; 17 street boxes. Chief engineer, Frank R. Dye.

WATER SUPPLY—Source, canal fed by Lewiston reservoir; system, direct pumping; pumping engines, dy cap 3,500,000 gals; 169 hydrants; pipe 18 miles, 4 to 18 in dia; pressure, domestic 45, fire 100 pounds; waterworks owned by city; cost to construct \$325,000; ann expenses \$4,500. Pres and supt, Howard Scudder.

Plain City, Madison Co., population 1,500; fire area 640 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 6 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 125 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,500; total ann expenses of department \$500; total membership 20, volunteer members; fire alarm. Chief engineer, M. B. Smith.

WATER SUPPLY—Source, flowing wells; system, pumping direct; hydrants 30; pipe 3 miles, 10 to 4 in; waterworks owned by city; cost to construct \$18,000. Chairman of com, E. H. Mallott. (Works to be put in this year as described.)

Plymouth, Richland Co., population 1,133;

mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, rubber good 200 ft; total membership 15, volunteers.*

WATER SUPPLY—Source, wells and cisterna. Town clerk, F. Beekman.*

Pomeroy, Meigs Co., population 4,729; fire area 2,000 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, slamese couplings used; hose, cotton good 1,000 ft, rubber good 800 ft, inferior 600 ft; value of fire department equipment \$8,000; value of buildings occupied \$2,800; total ann expenses of department \$450; total membership 45, paid full time 4, volunteers 45; bell alarm. Chief, F. E. Bolton.*

WATER SUPPLY—Source, river, pumping to cisterns; cap of cisterns 20,000 gals; 4 pumps owned by brewery and mills and ice plant. Mayor, Adolphus H. Seebach; city clerk, W. H. Huntley.

Port Clinton, Ottawa Co., population 2,500; fire area 50 blocks; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,800 ft; value of fire department equipment \$5,000; value of buildings occupied \$6,000; total ann expenses of department \$600; 1 member paid full time, 30 volunteers; bell alarm. Chief engineer, Edward Bertsch.

WATER SUPPLY—Source, Lake Erie, cisterns; waterworks contemplated; street mains from lake. Town clerk, W. W. Montgomery.*

Portsmouth, Scioto Co., population 17,000; fire area 1,800 acres; mercantile buildings, brick, stone and wood, 1 to 4 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds, 1 supply wagon; hose, rubber good 2,400 ft, cotton good 2,700 ft, leather good 100 ft; 30 horses, value \$2,175; value of fire department equipment \$16,000; value of buildings occupied \$12,000; total ann expenses of department \$12,000; total membership 35, paid full time 15, paid part time 20; Gamewell alarm; 55 street boxes. Chief engineer, John Brown.

WATER SUPPLY—Source, Ohio river; system, direct pumping; pumping engines, dy cap 3,000, 000 gals; 123 hydrants; pipe 25 miles, 4 to 12 in dia; 100 valves; 2,000 taps; pressure 50 to 100 pounds; works owned by city; cost to date \$250,000; ann expenses \$12,000. Supt, J. L. Phillips.

Proctorville, Lawrence Co., population 500; fire area 150 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 225 ft; value of fire department equipment \$225; total ann expenses of department \$200; total membership 40. Chief engineer, T. E. Gardner.

WATER SUPPLY—Source, cisterns and Ohio river. Town clerk, E. F. Gillen.

Quaker City, Guernsey Co., population 845; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$500; building occupied leased; total ann expenses of department \$600; total membership 36, volunteers; bell alarm. Chief, Jas. W. Garber.

WATER SUPPLY—Source, wells.

Rachine, Meigs Co., population 400; fire area 50 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, Ohio river, wells and cisterns. Village clerk, Chas. Jay.

Ravenna, Portage Co., population 4,000; fire area 970 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; causes of fire

investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, slamese couplings used; hose, rubber good 1,000 ft, inferior 1,000; 4 horses; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses of department \$600; total membership 18, paid; telephone alarm. Chief engineer, W. F. Keller.

WATER SUPPLY—Source, Crystal lake; system, direct pumping; 3 pumping engines, dy cap 4,000,000 gals; 108 hydrants; pipe 12 miles, 4 to 16 in dia; 130 valves; 900 taps; pressure, domestic 50, fire 100 pounds; waterworks owned by town; cost to construct \$85,000, cost to date 100,000; ann expenses \$3,200. Supt, W. H. Linton.

Reading, Hamilton Co., population 2,000; fire area 500 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, good 600 ft; value of fire department equipment \$1,000; total membership volunteers.*

WATER SUPPLY—Source, wells and cisterna.*

Richfield, Summit Co., population 500; fire area 1 mile sq; mercantile buildings, wood and brick, 1½ and 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—2 force pumps, 1 chemical extinguisher, ladders and buckets.

WATER SUPPLY—Source, wells and cisterna. Village clerk, H. M. Welton.

Richwood, Union Co., population 1,800; fire area 46 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon, slamese couplings used; hose, rubber good 1,200 ft, cotton good 400 ft; value of fire department equipment \$7,500; value of buildings occupied \$1,000; total ann expenses of department \$2,100; total membership 39, paid full time 1, remainder volunteers; bell alarm. Chief engineer, G. S. Collier.

WATER SUPPLY—Source, driven wells. Town clerk, Henry S. Styles.

Ripley, Brown Co., population 3,000; fire area 20 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 Aherns steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, slamese couplings used; hose, leather good 3,500 ft, poor 1,000 ft; value of fire department equipment \$10,000; building occupied \$30,000; total ann expenses of department \$5,000; total membership 22, paid full time; bell alarm. Chief engineer, Robt. Carr.

WATER SUPPLY—Source, river; 19 cisterna, dy cap 12,000 gals.

Riverside, Hamilton Co., population 2,500; fire area 1,400 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department—bucket brigade.

Rockford, Mercer Co., population 1,100; mercantile buildings, wood, 1½ and 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 500 ft, inferior 200 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total membership 50, volunteers; bell alarm. Chief engineer, W. H. Hillman.

WATER SUPPLY—Source, wells, cisterna and river.

Roseville, Muskingum Co., population 714; fire area 80 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 225 ft, linen good 250 ft; value of equipment \$900; value of buildings occupied \$75; total membership 23, volunteers. Chief engineer, J. L. Weaver.*

WATER SUPPLY—Source, wells and cisterna. Town clerk, J. D. Parrott.*

Salem, Columbiana Co., population 9,450; fire area 1,300 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1

hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 in reserve, 1 extension ladder, 1 fire patrol wagon; hose, rubber 1,450 ft, inferior 200 ft; 2 horses, value \$400; value of fire department equipment \$16,000; value of buildings occupied \$4,000; total expenses for past year \$1,895; total membership 68; paid full time 2, res. volunteers; bell alarm, 41 fire alarm boxes. Chief engineer, W. K. Holeman.

WARREN SUPPLY—Source, wells and springs; system, pumping to standpipe; oil reservoir cap 600,000 gals; standpipe cap 260,000 gals; pumping engines, dy cap 3,000,000 gals; 175 hydrants; pipe 18½ miles, 4 to 10 in dia; 122 valves; pressure, domestic 70, fire 140 pounds; pressure recording gauge; waterworks owned by company. Pres, E. S. Ambler; supt, F. W. Allison.

Salineville, Columbiana Co., population about 3,000; fire area 3-0 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,500 ft; value of fire department equipment, \$2000; value of buildings occupied \$1,000; total ann expenses of department \$300; total membership 38, volunteer members; bell alarm. Chief engineer, W. A. Skinner.

WATER SUPPLY—Source, wells and creek.*

Sandusky, Erie Co., population 18,471; fire area 3 sq miles; mercantile buildings, stone and brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 extension ladder truck, 2 hose carriages, 5 hose wagons; hose, cotton good 6,800 ft, inferior 900 ft; 8 horses, value \$1,200; value fire department equipment \$20,000; value of buildings occupied \$55,000; total ann expenses of department \$21,827; total membership 40, paid full time 11, paid part time 22, volunteers 7; Gamewell alarm; 40 street boxes; 4 fire companies; 3 hose companies, 1 hook and ladder company. Chief engineer, David Bromm; chairman of fire com, D. Schaffer.

WATER SUPPLY—Source, Sandusky bay; system, pumping to standpipe; standpipe cap 660,000 gals; pumping engines, dy cap 10,500,000 gals; 224 hydrants; pipe 31 41-100 miles, 2 to 20 in dia; 227 valves; 90 meters; pressure, domestic 60 to 75, fire 95 pounds; pressure recording gauge; waterworks owned by city; cost to construct \$353,000; ann expenses \$11,500. Supt, Chas. A. Judeon.*

Seville, Medina Co., population 599; buildings, brick and wood, 2 stories; shingle, tin and slate roofs. Fire department—1 hand engine, 1 hose carriage; hose, rubber 500 ft; bell alarm.*

WATER SUPPLY—Source, streams, 12 tanks.

Shawnee, Perry Co., population 4,000; fire area ¼ sq mile; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$900; total membership 30, volunteers; bell alarm. Chief engineer, E. W. Williams.

WATER SUPPLY—Source, cisterna.*

Shelby, Richland Co., population 3,000; fire area 2 sq miles; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,500 ft, inferior 300 ft; value of fire department equipment \$6,000; value of buildings occupied \$2,500; total ann expenses of department \$2,000; total membership 180, volunteers; bell alarm; 3 engine companies, hook and ladder company, 3 hose companies. Chief engineer, Robert Smiley; chairman of fire com, C. G. Gruseup.

WATER SUPPLY—Source, 19 cisterns. Town clerk, Wm. F. Sonnanstine.

Sidney, Shelby Co., population about 6,000; fire area 1,500 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 3,500 ft; 4 horses, value \$600; value of fire department equipment \$14,000; value of buildings occupied \$10,-

000; total ann expenses of department \$2,200; total membership 16, paid full time 2, part time 13; Gamewell alarm; 22 street boxes. Chief engineer, G. W. Covill.

WARREN SUPPLY—Source, Great Miami river and wells; system, pumping to standpipe and direct; standpipe cap 318,000 gals; pumping engines, dy cap 3,000,000 gals; 91 hydrants; pipe 13 miles, 12 to 4 in dia; 63 valves; 385 taps; pressure, domestic 60 to 82, fire 80 to 100 pounds; waterworks owned by city; cost to construct \$80,000, cost to date \$87,000; ann expenses \$3,800. Supt, Jacob Wagner.

Somerset, Perry Co., population 1,300; fire area 500 acres; buildings, brick, stone and wood, 2 stories; wooden, tin and slate roofs. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton rubber lined good 800 ft, inferior 100 ft; value of fire department equipment \$1,800; value of buildings occupied \$1,200; ann expenses \$175; total membership 60, volunteers; bell alarm. Chief engineer, Chas. E. Smith.

WATER SUPPLY—Source, wells and cisterns.

Spencerville, Allen Co., population 2,000 mercantile buildings, brick and frame, 2 stories; private, brick and frame, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 4 chemical extinguishers, 2 hose carriages; hose, rubber good 800 ft, inferior 300 ft; total membership 40, volunteers; bell alarm. Chief engineer, E. F. Veach.*

WATER SUPPLY—Source, canals, wells and cisterns.

Springfield, Clark Co., population 35,000. Fire department—2 steam fire engines, 2 chemical engines on wheels, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 7,500 ft, rubber good 1,450 ft; 20 horses; total membership 36, paid full time 21, call men 15; telegraph alarm; 84 street boxes. Chief engineer, E. W. Simpson.

WATER SUPPLY—Source, springs through filter gallery; system, pumping to standpipe, cap 650,000 gals; reservoir cap 700,000 gals; pumping engines, dy cap 8,000,000 gals; 360 hydrants; 2,761 taps; pipe 44 miles, 3 to 24 in dia; 357 valves; pressure 86 pounds; waterworks owned by city; cost to construct \$448,523.81, to date \$528,482; ann expenses \$14,748. Secy and supt, W. R. Smith.

St. Bernard, Hamilton Co., population 3,000; mercantile buildings, stone, 2 and 2½ stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 800 ft, inferior 150 ft; value of fire department equipment \$1,000; total ann expenses of department \$200; total membership 150, volunteer members; bell alarm. (3,000 ft of hose proposed.)

WATER SUPPLY—Source, driven wells; system, pumping to reservoir or standpipe; reservoir cap 100,000 gals; standpipe cap 270,000 gals; 2 pumping engines, dy cap 500,000 gals each; hydrants 49; pipe 7½ miles, 10 to 3 in; valves 33; waterworks owned by city; cost to construct \$80,000. Chair of trustees, Herman J. Witte. (Above works are being put in.)

St. Clairsville, Belmont Co., population 1,121; fire area 100 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 4 sets hooks and ladders. Chairman of fire and water com, John T. Norris.*

WATER SUPPLY—Source, wells and cisterns.

St. Mary's, Auglaize Co., population 3,000; fire area 840 acres; buildings, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,400 ft, inferior 300 ft, rubber inferior 600 ft, leather good 400 ft; value of fire department equipment \$4,500; value of buildings occupied \$8,000; total ann expenses of department \$750; total membership 75, volunteers; bell alarm. Chief engineer, F. J. Hause.*

WATER SUPPLY—Source, 12 cisterns, canal and rivers; cisterna, dy cap 11,500 gals each.

St. Paris, Champaign Co., population 1,500; fire area 1,250 acres; buildings, brick and wood, 2 stories. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rub-

ber good 1,000 ft; value of fire department equipment \$4,500; value of buildings \$3,000; total ann expenses of department \$250; total membership 60, volunteers; bell alarm. Captain, David E. Brown.

WATER SUPPLY—Source, wells and cisterns.

Steubenville, Jefferson Co., population 13,394; fire area 600 acres; mercantile buildings, brick, 2 to 4 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 4,000 ft, rubber good 150 ft; 8 horses, value \$1,200; value of fire department equipment \$18,000; value of 3 buildings occupied \$20,000; total ann expenses of department \$13,628; total membership 12, paid full time; Gamewell alarm; 24 street boxes. Chief engineer, W. B. Martin.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir; reservoir cap 2,296,500 gals; pumping engines, dy cap 3,200,000 gals; 145 hydrants; pipe 24 miles, 4 to 20 in dia; 226 valves; pressure 65 pounds; waterworks owned by city; ann expenses \$10,000. Supt, Frank B. Ford.

Stryker, Williams Co., population 2,000; buildings, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon; hose, rubber good 1,500 ft, inferior 300 ft; total membership 33, volunteers; bell alarm. Chief engineer, Charles Cramer.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir and cisterns; reservoir cap 1,000,000 gals; cisterns cap 7 to 13,000 gals.

Tiffin, Seneca Co., population 12,000; fire area 30 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, wood and brick, 1 1/2 to 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 2 hook and ladder trucks, 7 hose carriages, 1 hose wagon, siamese couplings used; hose, rubber good 2,500 ft, poor 500 ft, cotton good 2,000 ft; 4 horses, value \$700; value of fire department equipment \$10,000; 5 buildings occupied, value \$12,000; total ann expenses of department (including waterworks) \$13,000; total membership 24, paid full time 8, paid part time 15; Gamewell alarm; 20 street boxes. Chief engineer, W. H. Bloom.

WATER SUPPLY—Source, Sandusky river; system, direct pumping; pumping engines, dy cap 5,500,000 gals; 153 hydrants; pipe 21 miles, 5 to 18 in dia; 51 meters; 75 valves; pressure 50 to 90 pounds; waterworks owned by company; cost to construct \$175,000. Pres and manager, M. L. Scannell.*

Tippecanoe City, Miami Co., population 1,435; fire area 240 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine, 1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,800 ft, inferior 700 ft; value of fire department \$7,000; value of buildings occupied \$5,000; ann expenses for past year \$1,200; total membership 60, paid part time; bell alarm. Chief engineer, E. A. Jackson.

WATER SUPPLY—Source, canal and 9 natural wells. City clerk, E. A. Jackson.

Toledo, Lucas Co., population 120,000; fire area 800 acres; mercantile buildings, brick, iron and stone, 4 to 8 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—6 steam fire engines, 3 chemical engines on wheels, 8 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 7 hose carriages, all kinds, 4 hose wagons, 11 exercising wagons, 1 hose cart in reserve; hose, cotton good 20,600 ft; 43 horses, value \$8,300; value of fire department equipment \$65,000; value of buildings occupied \$108,000; total ann expenses of department \$80,300; total membership 94, paid full time 33, paid part time 1; Gamewell, McNamara electric alarm; street boxes 243; 16 fire companies, 4 engine companies, 2 chemical engines, 2 hook and ladder companies, 8 hose companies. Chief engineer, Christopher F. Wall.

WATER SUPPLY—Source, Maumee river, 2 miles S. W. of city; system, pumping to standpipe; standpipe cap 38,000 gals; pumping engines, dy

cap 18,000,000 gals; 597 hydrants; pipe 100 miles, 36 to 6 in; 800 valves; 5,375 taps; pressure, domestic 70, fire 110 pounds; waterworks owned by city; cost to construct \$1,250,000; ann expenses \$30,000. Supt, H. C. Cooter.

Toronto, Jefferson Co., population 3,000; fire area 640 acres; mercantile buildings, wood and brick, 3 and 4 stories; private, wood, 2 stories; fireworks ordinance. Fire department—2 hose carts, 1 hook and ladder truck; hose, rubber good 1,000 ft; value of equipment \$1,500; value of buildings \$1,500; 20 volunteers; 1 hook and ladder company, 2 hose companies. Chief, Charles S. Ferguson.

WATER SUPPLY—Source, Ohio river; system, pump direct and to reservoir, cap 3,000,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 48; pipe 7 1/2 miles, 4 to 12 in dia; 42 valves; 200 taps; pressure 125 pounds; owned by city; cost to construct \$75,000; ann expenses \$1,800. Supt, Martin B. Miranda.

Troy, Miami Co., population 5,200; fire area 900 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,200 ft, rubber good 800 ft; 3 horses, value \$800; value of fire department equipment \$15,000; value of buildings occupied \$6,000; total ann expenses of department \$3,000; total membership 18, paid full time 3, paid part time 15; Gamewell alarm; 15 street boxes. Chief engineer, Stephen Genslinger.

WATER SUPPLY—Source, wells; system, direct pumping; pumping engines, dy cap 2,000,000 gals; 110 hydrants; pipe 10 miles, 3 to 16 in dia; 141 valves; 700 taps; pressure, domestic 35, fire 70 to 100 pounds; waterworks owned by city; cost to construct \$80,000; ann expenses \$1,500. Secy and Supt, I. N. Price.

Uhrichsville, Tuscarawas Co., population 5,000; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,600 ft, rubber inferior 300 ft; value of fire department equipment \$2,500; value of buildings occupied \$5,000; expenses for past year \$300; membership 30, 1 paid part time, volunteers 24; bell alarm. Chief engineer, G. W. Oliver.

WATER SUPPLY—Source (see Denison).

Upper Sandusky, Wyandot Co., population 3,700; fire area 5 miles; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 hook and ladder trucks, 2 hose carriages; hose, rubber good 1,000 ft, poor 500 ft; 2 horses, value \$500; value of fire department equipment \$5,700; value of buildings occupied \$2,000; expenses for last year \$1,500; total membership 50, paid full time 2, paid part time 48. Chief engineer, W. B. Coon.

WATER SUPPLY—Source, springs and Sandusky river; system, gravity, pumping to standpipe and direct; standpipe cap 100,000 gals; 2 pumping engines, dy cap 3,500,000 gals; 100 hydrants; pipe 11 1/2 miles, 4 to 12 in dia; 51 valves; 12 meters; pressure, domestic 48, fire 60 to 125 pounds; waterworks owned by company; cost to construct \$120,000; ann expenses \$1,800. Supt, John W. Henderson.*

Urbana, Champaign Co., population 6,510; fire area 4 blocks; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, rubber good 2,000 ft, inferior 500 ft; 5 horses, value \$1,000; value of fire department equipment \$8,000; value of buildings occupied \$25,000; total ann expenses of department \$4,000; total membership 50, paid full time 4, paid part time 8; telephone alarm. Chief engineer, W. McDonald.*

WATER SUPPLY—Source, wells; system, direct pumping; reservoir cap 1,500,000 gals; pumping engines, dy cap 4,000,000 gals; 130 hydrants; pipe 16 1/4 miles, 4 to 16 in dia; 88 valves; 717 taps; pressure, domestic 40, fire 100 pounds; water-

works owned by company; cost to construct \$150,000; ann expenses \$4,500. Supt. F. W. Ambrose.

Utica, Licking Co., population 763; fire area 130 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 400 ft., rubber good 20 ft.; value of fire department equipment \$700; total membership 30, volunteers; bell alarm. Chief engineer, C. A. Berrit.*

WATER SUPPLY—Source, wells and streams. Town clerk, H. E. Harris.*

Van Wert, Van Wert Co., population 6,000; fire area 2,560 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; shingle roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hand reels, 1 hose wagon; hose, cotton good 1,500 ft., rubber good 1,000 ft., inferior 300 ft.; 2 horses, value \$400; value of fire department equipment \$5,000; value of buildings occupied \$12,000; total ann expenses of department \$1,600; total membership 40, paid full time 2, paid part time 38; Gamewell alarm; 13 street boxes; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, J. J. Schoemaker.

WATER SUPPLY—Source, wells; system, pumping direct; reservoir cap 3,000,000 gals; pumping engines, dy cap 3,000,000 gals; 149 hydrants; pipe 16 4-5 miles, 16 to 6 in dia; 112 valves; 400 taps; waterworks owned by city; cost to construct \$125,000; ann expenses \$3,600. Supt. C. P. Strother.

Vermillion, Erie Co., population 1,260; fire area 1,800 acres; mercantile buildings, wood, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 4 chemical extinguishers, 1 hose carriage, 2 buckets, etc.; hose, linen (rubber lined) good 400 ft., linen (unlined) good 1,000 ft., poor 400 ft.; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 34, volunteers; bell alarm. Foreman, Henry Smoll.

WATER SUPPLY—Source, river and cisterns.*

Versailles, Darke Co., population 1,400; buildings, brick, 2 stories; metal roofs; no fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage; hose, rubber good 1,000 ft., inferior 50 ft.; value of fire department equipment \$2,800; value of buildings occupied \$2,500; total ann expenses of department \$250; total membership 28, volunteers; bell alarm. Chief, Leonard Marker.*

WATER SUPPLY—Source, creek and cisterns.*

Wadsworth, Medina Co., population 1,574; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. No fire department—ladders and buckets; hose, rubber good 100 ft. Chief, T. W. Greene.*

WATER SUPPLY—Source, 2 springs; system, gravity; 2 reservoirs; 30 hydrants; pipe 6½ miles, 3½ and 6 in dia; 30 valves; 6 meters; pressure 75 pounds; waterworks owned by R. F. Weaver; cost to construct \$15,000; ann expenses \$200.

Wapakoneta, Auglaize Co., population 3,616, fire area 1½ mile; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 2 horses, hose, cotton good 2,000 ft., rubber inferior 1,000 ft.; total ann expenses of department \$1,000; total membership 120, volunteers; bell alarm. Chief engineer, Theo. Dickman.

WATER SUPPLY—Source, wells and cisterns. (Will build works this year.)

Warren, Trumbull Co., population 7,800; fire area 1,000 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 100 ft., rubber good 2,500 ft.; 4 horses, value \$1,200; value of fire department equipment \$10,000; value of buildings occupied \$50,000; total ann expenses of department \$3,100; total membership 23, paid full time 2, paid part time 1; automatic bell alarm. Chief, M. B. Taylor.*

WATER SUPPLY—Source, Mahoning river, through filter gallery; system, pumping to standpipe and direct; 2 pumping engines, dy cap 3,000,000 gals; 115 hydrants; pipe 15½ miles, 4 to 16 in dia; 60 valves; pressure, domestic 75, fire 150 pounds; waterworks owned by company; cost to construct \$180,000; ann expenses \$4,500. Supt. Geo. H. Quimby.

Washington, Fayette Co., population 5,742; fire area 2½ miles; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 steam fire engine (not used), 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,500 ft., inferior 500 ft.; 2 horses, value \$400; value of fire department equipment \$10,000; value of buildings occupied \$15,000; total ann expenses of department \$1,700; total membership 37, paid full time 2, paid part time 43; telephone alarm. Chief, John Milliken.

WATER SUPPLY—Source, artesian wells; system, pumping direct and to standpipe, cap 280,000 gals; reservoir cap 1,200,000 gals; 2 pumping engines, dy cap 3,000,000 gals; 135 hydrants; pipe 18 miles, 4 to 14 in dia; 73 valves; 500 taps; pressure, domestic 50, fire 100 pounds; cost to construct \$145,000, to date \$172,200; ann expenses \$3,000. Supt. Frank C. Smith.

Wauseon, Fulton Co., population 2,060; fire area 1½ mile; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 1,500 ft., rubber inferior 100 ft.; value of fire department equipment \$4,500; value of buildings occupied \$15,000; total ann expenses of department \$100; total membership 40, volunteers; bell alarm. Chief engineer, W. F. Hubbell.

WATER SUPPLY—Source, 30 cisterns, cap 10,000 gals.

Waverly, Pike Co., population 1,700; fire area 200 acres; buildings, brick and wood, 1 to 3 stories; shingle and tin roofs; fireworks ordinance. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages, 2 supply wagons; hose, rubber good 1,000 ft.; value of fire department equipment \$8,000; value of buildings occupied \$10,000; total ann expenses of department \$3,000; total membership 25, volunteers; bell alarm. Chief engineer, F. Witkoff.*

WATER SUPPLY—Source, canal and 3 cisterns.

Wellington, Lorain Co., population 2,089; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 24 buckets; hose, cotton good 500 ft., inferior 100 ft., rubber good 500 ft., inferior 100 ft.; value of fire department equipment \$19,000; total ann expenses of department \$300; total membership 30, paid \$10 per year; bell alarm. Chief, Geo. Hackenberg.*

WATER SUPPLY—Source, cisterns and wells.

Wellston, Jackson Co., population about 7,000; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, 11 kinds; hose, cotton good 1,100 ft. Chief engineer, E. B. Bingham.

WATER SUPPLY—Source, Racoon creek; system, pumping to standpipe or direct; standpipe cap 200,000 gals; pumping engines, dy cap 1,500,000 gals; 66 hydrants; pipe 10 miles, 3 to 12 in dia; 33 valves; 300 taps; pressure, domestic 85, fire 80 pounds; works owned by city; cost to construct \$53,000, cost to date \$60,000. Supt. William Thomas.

Wellsville, Columbiana Co., population 6,000; fire area 550 acres; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 2 hose wagons; hose, rubber good 1,000 ft., cotton good 1,400 ft., inferior 100 ft.; value of fire department equipment \$7,000; value of buildings occupied \$23,000; total ann expenses of department \$400; total membership 37, volunteer members; electric

alarm; street boxes 10. Chief engineer, C. H. Mayhew.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir; reservoir cap 2,500,000 gals; 2 pumping engines, dy cap 400,000 gals; 58 hydrants; pipe 8 miles, 4 to 10 in dia; 56 valves; pressure, domestic 100, fire 150 pounds; waterworks owned by city; cost to construct \$60,000, to date \$71,513.32; ann expenses \$6,300. Supt, John W. Quinn.

West Cleveland (see Cleveland).

Westerville, Franklin Co., population 1,329 fire area 500 acres; mercantile buildings, brick and stone, 3 stories; private, brick and wood, 2 stories; slate and tin roofs; no fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$900; value of buildings occupied \$1,500; total ann expenses of department \$100; total membership 25, volunteers; bell alarm; 1 hook and ladder company. Chief engineer, C. S. Ranney.

WATER SUPPLY—Source, private wells and cisterns.

West Liberty, Logan Co., population 1,500 fire area 500 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$4,300; value of buildings occupied \$4,350; total membership 35, paid full time 1, paid part time 3, volunteers 34. Chief engineer, W. E. Waugh.*

WATER SUPPLY—Source, mill race, fire wells and cisterns.*

West Milton, Miami Co., population 796; fire area 400 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels; hose, rubber good 250 ft; value of fire department equipment \$1,000; buildings rented; total membership 29, volunteers; bell alarm. Chief, J. O. Arnold.*

WATER SUPPLY—Source, wells. Mayor, Daniel N. Chase.*

West Salem, Wayne Co., population 756; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 500 ft, leather good 500 ft; value of department equipment \$2,000; value of buildings occupied \$200; total membership 50, volunteers. Chief, W. G. Read.

WATER SUPPLY—Source, 15 cisterns.*

West Toledo, Lucas Co. (See Toledo.)

Westwood, Hamilton Co., population 2,000; fire area 1,200 acres; mercantile buildings, wood, 2½ to 4 stories; private, wood, 2½ to 4 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose wagon; hose, rubber good 500 ft; 2 hoses, value \$400; value of fire department equipment \$3,000; value of buildings occupied \$30,000; total ann expenses of department \$500; total membership 85, paid full time 1, volunteers; electric alarm; 12 street boxes. Chief engineer, Wilson Wooley.

Willoughby, Lake Co., population 1,219; buildings, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 100 buckets; hose, rubber good 950 ft, poor 600 ft; value of fire department equipment \$1,800; value of buildings occupied \$200; total membership 27, volunteers, paid for service; bell alarm. Captain, E. J. Dickey.

WATER SUPPLY—Source, well and filter gallery; system, pump to reservoir and direct; reservoir cap 330,000 gals; pumping engines, dy cap 1,000, 400 gals; hydrants 47; pipe 5 miles, 10 to 4 in dia; 38 valves; 176 taps; pressure 70 to 140 pounds; works owned by village, cost \$30,000; ann expenses about \$1,000. Pres, J. W. Penfield.

Wilmington, Clinton Co., population 3,225; fire area 900 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder

truck, 3 hose carriages, 1 hose wagon; hose, rubber good 1,300 ft; 2 hoses, value \$200; value of fire department equipment \$5,000; city owns buildings occupied; total ann expenses of department \$1,200; total membership 27, paid full time 2. Chief engineer, R. J. Leacy.

WATER SUPPLY—Source, 16 cisterns.*

Wooster, Wayne Co., population 6,000; mercantile buildings, brick, 3 stories; private, wood, 2 stories; roofs tin and iron. Fire department—1 steam fire engine, 2-10 gal chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 3 hose wagons; hose, rubber good 1,500 ft, inferior 1,000 ft, cotton good 650 ft; 4 hoses, value \$850; value of fire department equipment \$5,000; value of buildings occupied \$8,000; total membership 34, paid full time 4, paid part time 30; electric alarm; street boxes 16. Chief engineer, Will Gerlach.

WATER SUPPLY—Source, spring and well; system, gravity and pumping to reservoir; 2 reservoirs, cap 12,000,000 gals; pumping engines, dy cap 500,000 gals; 112 hydrants; pipe 14 miles, 4 to 12 in dia; 52 valves; 300 taps; pressure 50 to 80 pounds; waterworks owned by city; cost to construct \$115,000, to date \$130,000; ann expenses \$1,400. Supt, Edmund Keyser.

Wyoming, Hamilton Co., population 2,000; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; total membership 65, volunteers. Chief engineer, L. G. Lilley.

WATER SUPPLY—Source, deep wells; system, pumping to reservoir and direct; reservoir cap 3,000,000 gals; pumping engines, dy cap 1,500,000 gals; 45 hydrants; pipe 7 miles, 4, 6 and 8 in; 90 taps; pressure, domestic 100, fire 100 pounds; waterworks owned by village; original cost to construct \$40,000; ann expenses \$1,500. Secy, W. A. Clark.

Xenia, Greene Co., population 9,000; fire area 1 mile square; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 800 ft, rubber 2,000 ft; 5 hoses, value \$1,000; value of fire department equipment \$4,750; value of buildings occupied \$10,000; total ann expenses of department \$3,000; total membership 13, paid full time 4, part time 9; telegraph alarm; 24 street boxes. Chief engineer, D. T. Davidson.

WATER SUPPLY—Source, springs; system, pumping to standpipe; standpipe cap 275,000 gals; reservoir cap 3,500,000 gals; pumping engines, dy cap 3,500,000 gals; 186 hydrants; pipe 20 miles, 6 to 14 in dia; 100 valves; 675 taps; pressure 50 to 100 pounds; waterworks owned by company; cost to construct \$200,000. Supt, G. F. Cooper.

Yellow Springs, Greene Co., population 1,450; fire area 2½ blocks; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

Youngstown, Mahoning Co., population 33,220; fire area 8 sq miles; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 8 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages; hose, linen good 4,500 ft; 12 hoses, value \$2,400; value of fire department equipment \$7,500; value of buildings occupied \$24,000; total ann expenses \$17,000; total membership 18, paid full time; Gamewell alarm; 33 street boxes. Chief engineer, William H. Moore.

WATER SUPPLY—Source, Mahoning river; system, pumping direct; pumping engines, dy cap 8,000,000 gals; 365 hydrants; pipe 37 miles, 4 to 20 in dia; 500 valves; 2,354 taps; pressure, domestic 90, fire 90 to 125 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$150,000, to date \$367,000; ann expenses \$14,000. Supt, W. S. Hamilton.

Zanesville, Muskingum Co., population 21,009; fire area 3,368 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 double tank chemical engine, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose

carriages; hose, rubber good 2,600 ft, cotton good 800 ft, leather poor 500 ft; 11 horses, value \$3,000; value of fire department equipment \$6,000; value of buildings occupied \$90,000; total ann expenses of department \$14,000; total membership 16, paid full time; Gamewell alarm; 41 street boxes. Chief, Louis F. Langley.

OKLAHOMA.

El Reno, Canadian Co., population 5,500; mercantile buildings, brick and stone; 2 and 3 stories; private, wood, 2 stories; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; value of fire department equipment \$3,500; total membership 13. Chief engineer, I. E. Dowell.

WATER SUPPLY—Source, 8 wells, $\frac{1}{2}$ mile from town; system, pumping to standpipe; standpipe cap 130,000 gals; pumping engines, 3; cap 2,000, 000 gals; hydrants 50; miles of pipe 6, 10 to 4 in; taps 150; valves 20; pressure, domestic 65, fire 125 pounds; waterworks owned by company; original cost to construct \$65,000; expenses of construction to date, \$75,000; ann expenses \$2,000. Supt, E. Thayer.

Guthrie, Oklahoma Co., population 12,000; fire area 1,380 acres; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; except in fire limits, no fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds, 1 hose wagon, 1 combination H. L. truck and hose wagon; hose, linen, good 1,300 ft, poor 700 ft; 2 horses, value \$400; value of fire department equipment \$3,000; value of buildings occupied \$500; total ann expenses of department \$1,500; total membership 51, paid full time 5; bell alarm. Chief engineer, G. W. Taylor.

WATER SUPPLY—Source, well near creek; system, pumping to reservoir; 2 pumping engines, cap 4,000 gals per min; hydrants 58; pipe 3 miles, 2 to 10 in dia; 14 valves; taps 50; pressure, domestic 95, fire 160 pounds; waterworks owned by company; original cost to construct \$18,600; expenses of construction to date, \$25,000; ann expenses \$3,500. Supt, E. S. Mackey.

Albany, Linn Co., population 4,000; mercantile buildings, brick and stone, 1 to 3 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 2 coal carts, stamess couplings used; hose, cotton good 800 ft, rubber good 700 ft; 2 horses, value \$500; value of fire department equipment \$10,000; value of buildings occupied \$8,000; total ann expenses of department \$2,000; total membership 160, paid full time 1, paid part time 2, remainder volunteers; bell alarm; 2 engine companies, 1 hook and ladder company. Chief engineer, F. C. Dannals.

WATER SUPPLY—Source, Santiam canal and Calappocoe river; system, direct pumping; 2 pumping engines, dy cap 1,000,000 gals; 5 hydrants; pipe 7.93 miles, 1 to 10 in dia; about 300 taps; pressure 40 to 100 pounds. Supt, L. E. Gray.

Albina, (8th ward of Portland) Multnomah Co.; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, wood and brick, 1 and 2½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—(see Portland.)

WATER SUPPLY—Source, 4 12-inch driven wells; system, pumping to reservoir and direct; reservoir cap 100,000 gals; pumping engines, dy cap 4,000,000 gals; 32 hydrants; pipe 30 miles, 3 to 10 in dia; pressure 40 to 105 pounds; works owned by company; cost to construct \$120,000. Pres and supt, G. W. Bates.

Arlington, Gillam Co., population 356; mercantile buildings, wood and brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft; value of fire department equipment \$500; total membership 20,

WATER SUPPLY—Source, Muskingum river; system, gravity and pumping direct; reservoir cap 5,000,000 gals; pumping engines, dy cap 10,000,000 gals; 340 hydrants; pipe 52 miles, 2 to 20 in dia; 640 valves; 5,240 taps; pressure 75 pounds; works owned by city; cost to construct to date \$550,000; ann expenses \$24,000. Supt, R. M. Saup.

Kingfisher, Kingfisher Co., population 4,500; fire area 720 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 900 ft, inferior 300 ft; value of fire department equipment \$1,800; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 42, volunteer members; bell alarm. Chief engineer, John McAvoy.

WATER SUPPLY—Source, Uncle Johns creek; system, pumping direct; pumping engines, dy cap 1,000,000 gals; hydrants 25; miles of pipe 3½, 8 to 4 in; taps 300; valves 10; pressure, domestic 60, fire 150 pounds; waterworks owned by city; original cost to construct \$20,000; ann expenses \$2,000. Supt, Cash Cade; engineer, G. O. Bolend.

Oklahoma City, Oklahoma Co., population estimated 5,000; fire area 100 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,700 ft; value of equipment \$4,200; value of buildings occupied \$1,800; total membership 14, paid full time 2, volunteers 12; bell alarm. Foreman, Allen Combs; chairman, L. Mendlick.*

WATER SUPPLY—Source, wells on Canadian River; system, pumping direct; pumping engines, dy cap 2,500,000 gals; hydrants 82; miles of pipe 9, 4 to 14 in; taps 400; 32 valves; pressure, domestic 40, fire 80 pounds; waterworks owned by company; original cost to construct \$75,000; expenses of construction to date, \$80,000; ann expenses \$5,000; Supt and pres, D. H. Scott.

OREGON.

volunteers; bell alarm. Chief engineer, Jay P. Lucas.*

WATER SUPPLY—Source, Columbia river; system, pumping to reservoir; reservoir cap 100,000 gals; pumping engines, dy cap 432,000 gals; 8 hydrants; pipe 2 miles, 6 to 8 in dia; waterworks owned by company; cost to construct \$7,000; ann expenses \$1,200. Supt, E. D. Parrot.*

Astoria, Clatsop Co., population 9,000; fire area 200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—3 steam fire engines, 3 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 7 hose carriages, 3 supply carts; hose, rubber good 6,600 ft, poor 500 ft, cotton good 500 ft; 8 horses, value \$1,600; value of fire department equipment \$25,000; value of buildings occupied \$40,000; total ann expenses of department \$14,000; total membership 210, paid full time 7, paid part time 7, volunteers 96; Gamewell alarm; 7 street boxes; 3 engine companies, 1 hook and ladder company. Chief, C. E. Foster.

WATER SUPPLY—Source, Bear creek; system, gravity; reservoir cap 500,000 gals; 1 hydrant; pipe 13 miles; 4 meters; pressure 45 to 65 pounds; waterworks owned by city; cost to construct \$80,000; ann expenses est \$3,600. Supt, W. N. Smith.

Baker City, Baker Co., population 2,604; fire area 1,200 by 415 ft; mercantile buildings, brick, 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 1,400 ft, cotton good 1,400 ft; value of fire department equipment \$5,500; value of buildings occupied \$1,000; total membership 125, volunteers; bell alarm; 1 hook and ladder company, 3 hose companies. Chief, M. Fox.

WATER SUPPLY—Source, artesian well; system,

pumping to reservoir and direct; reservoir cap 500,000 gals; pumping engines, dy cap 360,000 gals; 72 hydrants; 10 miles of pipe, 10 to 4 in dia; 240 taps; pressure 72 to 185 pounds; works owned by city; cost \$75,262. Supt, A. B. Combs.

Coquille, Coos Co., population 850; buildings, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. No organized department.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 25,000 gals; 1 hydrant; pipe 4 miles, 4 in dia; pressure 80 pounds; works owned by company; cost to construct to date \$3,800; ann expenses \$750. Supt, J. B. Messer.

Corvallis, Benton Co., population 3,000; fire area 320 acres; buildings, wood and brick; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carts; hose, rubber and leather good 1,500 ft, inferior 500 ft; buildings occupied, owned by city, value \$15,000; total membership 125, volunteers; bell alarm. Chief engineer, Thos. Whitehorn.

WATER SUPPLY—Source, Willamette river; system, pumping to tank and direct; tank cap 60,000 gals; pumps, dy cap 1,000,000 gals; 9 hydrants; pipe 4 miles, 4 to 8 in dia; pressure, domestic 40, fire 90 pounds; waterworks owned by company. Supt, Wm. Groves.

Dallas, Polk Co., population about 1,200; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 400 ft; value of buildings occupied \$2,500; total membership 40, volunteers; bell alarm. Foreman, Wilson Webb.

WATER SUPPLY—Source, not given; system, gravity; 6 hydrants; 4 cisterns. City clerk, O. V. R. Snyder.*

Dayton, Yam Hill Co., population 400; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, well; reservoir cap 5,000 gals; 3 hydrants; pipe 400 ft, 3 in dia; quality of water good; works owned by city; cost to construct \$1,000; ann expenses \$25. Village clerk, H. A. Bertram.

East Portland, Multnomah Co., population 10,532; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 2 hose wagons; hose, cotton good 500 ft, rubber good 3,000 ft; 6 horses, value \$1,500; value of fire department equipment \$12,000; value of buildings occupied \$20,000; total membership 48, paid full time 7, paid part time 21, volunteer members 20; bell alarm; 4 fire companies. Assistant engineer, H. H. Holmes.*

WATER SUPPLY—Source, well; system, pumping direct; standpipe cap 367,000 gals; pumps, dy cap 1,200,000 and 3,000,000 gals; 118 hydrants; pipe 28 miles, 16 to 4 in dia; 150 valves; pressure, domestic 80, fire 105 pounds; waterworks owned by city; cost to construct \$225,000; ann expenses \$10,000. Pres, John Myers.*

Eugene City, Lane Co., population 4,000; fire area 14 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 500 ft, rubber good 2,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$3,500; total membership 135, volunteers; bell alarm. Chief, C. F. Croner.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 375,000 gals; pumping engines, dy cap 2,000,000 gals; 34 hydrants; pipe 12 miles, 24 to 8 in dia; pressure, domestic 73, fire 275 pounds; waterworks owned by company; cost to construct \$15,000; ann expenses \$1,000. Supt, J. F. Robinson.

Grant's Pass, Josephine Co., population about 2,000; fire area 1 mile sq; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 aerial truck, 1 hose carriage; hose, cotton

good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$400; total membership 32, volunteer members; bell alarm. Chief engineer, Best Warren.

WATER SUPPLY—Source, Rogue river; system, pumping to reservoir and direct; reservoir cap 800,000 gals; pumping engines, dy cap 1,200,000 gals; 14 hydrants; pipe 7 1-4 miles, 8 to 4 in; pressure 140 ft; waterworks owned by company; expenses of construction to date \$90,000. Supt, Will Jackson.

Hillsboro, Washington Co., population 1,800; fire area 35 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 500 ft, cotton good 500 ft, linen good 500 ft; value of equipment \$2,500; value of buildings \$4,500; total membership 75, volunteers; bell alarm. Chief engineer, F. S. Weathered.

WATER SUPPLY—Source, wells; system, pump to reservoir and direct; reservoir cap 35,000 gals; pumping engines, dy cap 500,000 gals; 20 hydrants; 20 valves; 200 taps; pipe 7 miles, 4 and 6 in dia; pressure 34 to 80 pounds; works owned by company; cost to date \$34,000; ann expenses \$3,000. Supt, H. W. Gates.

Hood River, Wasco Co., population 201. No organized fire department.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,500 gals; pipe 2½ miles; pressure 150 ft head; cost to construct \$4,000. Owner, H. C. Coe.

Independence, Polk Co., population est 1,000. No organized fire department.*

WATER SUPPLY—Source, wells; system, pump to standpipe and direct, cap 20,000 gals; pumping engines, dy cap 750,000 gals; 10 hydrants; pipe 4 miles, 4 to 6 in dia; 7 valves; pressure 40 to 150 pounds; works owned by L. C. Gilmore; cost to construct \$13,000, to date \$14,794; ann expenses \$1,715.50. Supt, L. C. Gilmore.

Jacksonville, Jackson Co., population 743. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose cart; hose, 750 ft; total membership 50; bell alarm. Chief engineer, C. F. Smith.*

WATER SUPPLY—Source, 3 cisterns, cap 12,000 gals; street mains. Town clerk, S. J. Day.

Joseph, Wallowa Co., population 249; fire area 40 acres; buildings, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 300 ft, rubber good 250 ft, inferior 50 ft; value of fire department equipment \$510; total ann expenses of department \$260; total membership 15, volunteers. Chief, Geo. McLoughlin.

WATER SUPPLY—Source, lake; system, gravity; pipe 2 miles, 8 to 4 in dia; 8 hydrants; pressure 65 pounds; works owned by company; cost to construct \$5,000. Pres, D. F. McCully.

La Grande, Union Co., population 2,588; fire area 1,200 acres; buildings, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$600; total membership 25, volunteers; bell alarm. Chief engineer, Joseph Jones.*

WATER SUPPLY—Source, wells; system, pump to reservoir, cap 1,000,000 gals; pumps, dy cap 42,900 gals; pipe 7 miles, 12 to 3 in dia; 43 hydrants; 16 valves; 85 taps; pressure 85 pounds; works owned by city; cost to construct \$50,000; ann expenses \$2,500. Supt, F. E. Enlor.

Lebanon, Linn Co., population 1,250; fire area 25 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 hose reels, 36 buckets, ladder, etc; hose, rubber good 450 ft, inferior 100 ft; value of department equipment \$1,075; value of buildings occupied \$1,750; expenses of department \$48; membership 45, volunteers; bell alarm. Chief, W. C. Paterson.

WATER SUPPLY—Source, Santiam river; system, pumping to tank and direct; tank cap 15,000 gals; pumping engines, dy cap 1,000,000 gals; 17 hydrants; pipe 1 mile, 4, 6, 8 in dia; 11 valves; 50 taps; pressure, domestic 40, fire 80 to 100 pounds; waterworks owned by company; cost to construct \$8,000.

Marshfield, Coos Co., population 1,600; fire area 50 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber 500 ft, cotton good 1,000 ft; value of fire department equipment \$7,500; value of buildings occupied \$150; membership of 50, paid full time 1; bell alarm. Chief engineer, C. W. Paterson.

WATER SUPPLY—Source, bay and cisterns.

McMinnville, Yam Hill Co., population 3,000; fire area 540 acres; mercantile buildings, 2 stories; private, wood, 2 stories; wooden and iron roofs; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 300 ft, rubber good 600 ft; value of fire department equipment \$2,125; value of buildings occupied \$2,300; total membership 75; volunteers; electric alarm; 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, Elsie Wright.

WATER SUPPLY—Source, Yam Hill river; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 17 hydrants; pipe 4 miles, 8 to 3 in dia; 14 valves; pressure 40 to 180 pounds; works owned by city; cost to construct \$30,000; to date \$36,000; ann expenses \$5,050. Pres, G. W. James; supt, F. E. Grifith.

Medford, Jackson Co., population 2,000; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hose carriage; hose, rubber good 500 ft; value of equipment \$1,000; membership 22, volunteers; bell alarm. Chief, G. L. Davis.

WATER SUPPLY—Source, Bear creek; system, gravity, pump from canal to reservoir, cap 40,000 gals; pumps, cap 18,000 gals per hour; pipe 2 miles, 8 to 2 in; 17 hydrants; 25 valves; pressure, domestic 43, fire 180 pounds; cost to construct \$10,000, cost to date \$25,000; ann expenses \$1,400. Supt, E. W. Carder.

Milton, Umatilla Co., population 544; buildings, wood, 1 and 2 stories.

WATER SUPPLY—Source, Walla Walla river; system, gravity; pipe 1½ miles, 12 to 6 in dia; quality of water good; 4 hydrants; pressure 40 pounds; cost to construct \$5,000. Supt, A. Allen.

Monmouth, Polk Co., population 1,200; town have a quantity of hose. (Hook and ladder truck, hose, buckets and fire hydrants contemplated.)

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 10,000 gals, dy cap 100,000 gals; pressure, domestic 40, fire 150 pounds; works owned by company; cost to construct \$10,000; ann expenses \$2,000. Supt, F. S. Barsee.

Mount Tabor, Multnomah Co., population 300; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department not reported.

WATER SUPPLY—Source, wells; system, pumping to tank; cap 10,000 gals, dy cap 50,000 gals; pipe 2 miles, 8 in dia; pressure 50 pounds; works owned by company; cost to construct \$5,000; ann expenses \$500. Supt, J. L. Ivers.

Newport, Benton Co., population 121; buildings, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department disorganized.

WATER SUPPLY—Source and system not given; 1 reservoir, cap 120,000 gals. Town clerk, J. H. Aldrich.

Oregon City, Clackamas Co., population 5,000; fire area 1,500 acres; mercantile buildings, stone, iron, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,500 ft, inferior 300 ft, cotton good 400 ft, inferior 300 ft; value of fire department equipment \$4,000; value of buildings occupied \$18,000; total ann expenses of department \$800; total membership 97, volunteers; bell alarm; 1 hook and ladder company, 3 hose companies. Chief engineer, J. W. O'Connell.

WATER SUPPLY—Source, Willamette river; system, pumping to reservoir, standpipe and direct; reservoir cap 3,000,000 gals; pumping engines, dy cap 2,200,000 gals; 30 hydrants; pipe 4 miles, 13 to 10 in dia; 400 taps; pressure, domestic 60, fire 140

to 300 pounds; waterworks owned by city; original cost to construct \$28,000; expenses of construction to date \$17,000; ann expenses \$6,000. Supt, W. H. Howell.

Pendleton, Umatilla Co., population 3,500; fire area 18 acres; buildings, stone, brick and wood, 1 to 3 stories; wooden roofs not permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 coal tender; hose, rubber good 1,900 ft, cotton good 400 ft; 2 horses; value of fire department equipment \$10,000; total ann expenses of department \$3,400; total membership 57, 2 paid full time, 55 paid part time; bell alarm; 3 fire companies. Chief engineer, Joseph Ell.

WATER SUPPLY—Source, well; system, pumping to reservoir and direct; reservoir cap 500,000 gals; pumping engines, dy cap 1,000,000 gals; 25 hydrants; pipe 9 miles, 2 to 8 in dia; 15 valves; 2 meters; pressure, domestic 80, fire 120 pounds; waterworks owned by city; cost to construct \$29,000; ann expenses \$6,000. Supt, Ed. E. Sbaron.

Portland, Multnomah Co., includes Albina East and West Portland; population 80,000; fire area 85 acres; mercantile buildings, brick and stone, 1 to 10 stories; private, wood, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 2 chemical engines on wheels, 40 chemical extinguishers, 5 hook and ladder trucks, 1 aerial truck, 4 hose carriages, 12 hose wagons; hose, cotton good 350 ft, rubber good 14,000 ft; 51 horses, value \$10,570; value of fire department equipment \$133,550; value of buildings occupied and lots, \$208,346; total ann expenses of department \$150,538; total membership 176, paid full time 56, paid part time 120; Gamewell alarm; street boxes 101. Supt, Joseph Buchtel.

WATER SUPPLY—Source, Willamette river; system, pumping direct; reservoir cap, low service, 2,000,000 gals, pumping engines, dy cap 2 of 5,000,000 gals, and 1 of 10,000,000 gals, and one of 2,500,000; pipe 75 miles, 4 to 30 in dia; 232 hydrants; 130 meters; 1,000 taps; pressure, domestic 65 pounds, fire same; works owned by city; cost to construct \$750,000; ann expenses \$58,000. Supt, Isaac W. Smith. (System is for west side of Portland; on East side are 2 systems. A gravity system is now under construction estimated cost \$2,250,000.)

Roseburg, Douglas Co., population 2,500; fire area 160 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$2,312; value of buildings occupied \$800; total ann expenses of department \$200; total membership 63, volunteers. Chief engineer, L. A. Sanctuary.

WATER SUPPLY—Source, South Umpqua river; system, pump direct and to reservoir, cap 600,000 gals; pumping engines, dy cap 400,000 gals; pipe 4 miles, 8 to 3 in dia; 20 hydrants; 16 valves; 300 taps; pressure 80 to 110 pounds; works owned by company; cost to construct \$20,000, cost to date \$45,000; ann expenses \$2,000. Supt, O. L. Willis.

Salem, Marion Co., population estimated 11,000; fire area 30 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, 2 tender carts; hose, rubber good 3,000 ft, inferior 500 ft; 4 horses, value \$675; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total membership 195, volunteers, paid full time 3, paid part time 9; bell alarm; 4 fire companies. Chief engineer, Andrew Coas.

WATER SUPPLY—Source, Willamette river; system, direct and to reservoir, cap 2,000,000 gals; pumping engines, dy cap 10,000,000 gals; 57 hydrants; pipe 27 miles, 4 to 12 in dia; 65 valves; 923 taps; pressure, domestic 80, fire 100 pounds; waterworks owned by company; cost to construct \$200,000, cost to date \$250,000; ann expenses \$6,000. Supt, J. M. Martin.

The Dalles, Wasco Co., population 4,000; fire area 10 acres; mercantile buildings, brick and

wood, 2 and 3 stories; private, wood, 1 and 1½ stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carriages; O. R. & N. Co., own fire pump, 5 pipe and plugs; hose, rubber, good 3,000 ft.; value of fire department equipment \$13,000; value of buildings occupied \$6,000; total ann expenses of department \$1,514; total membership 130, volunteers; bell alarm; 1 engine company, hose company. Chief engineer, J. B. Fish.

WATER SUPPLY—Source, Hood river; system, gravity; reservoir cap 2,800,000 gals; standpipe cap 900,000 gals; hydrants 30; pipe 23 miles, 4 to 14 in dia; 30 valves; pressure, domestic 40, fire 90 pounds; waterworks owned by city; cost to construct \$125,000, to date \$135,000; ann expenses \$1,620. Supt, J. J. Norman.

Union, Union Co., population 1,350; fire area 8 acres; mercantile buildings, brick and stone 1, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—144 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages; hose, cotton good 950 ft.; value of fire department equipment \$2,755; value of buildings occupied \$6,068; total ann expenses of department \$104; total membership 37, volunteers; bell alarm; 2 fire companies. Chief engineer, C. E. Davis.

Adrian Mines, De Lancy Co., population estimated 1,500; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers.

WATER SUPPLY—Source, artesian wells; system, pumping to tank; 9 hydrants; pipe 3 miles; quality of water good; works owned by company; cost to construct \$5,000. Supt, John H. Bell.*

Allegheny, Allegheny Co., population 105,287; mercantile buildings, brick, 4 stories; private, brick, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—11 steam fire engines, 1 chemical engine on wheels, 10 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 14 hose carriages, alarm couplings used; 45 horses; value of fire department equipment \$80,000; value of 14 buildings occupied \$104,000; total membership 99, paid full time; telegraph alarm; 163 street boxes. Chief engineer, John K. Hunter.

WATER SUPPLY—Source, Allegheny river; system, pumping to reservoir and direct; reservoir cap 7,750,000 gals; pumping engines, dy cap 28,000,000 gals; 1,450 hydrants; pipe 106 miles, 4 to 36 in dia; 4,200 valves; 9 meters; pressure 40 to 180 pounds; waterworks owned by city; cost to construct \$2,000,000; cost to date \$2,300,000, ann expenses \$192,000. Supt, Thomas L. Brown.

Allentown, Lehigh Co., population 28,000; fire area 20,118 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, brick, 2 and 3 stories; slate and tin roofs; fireworks ordinance. Fire department—14 steam fire engines, 1-80 gal chemical engine, 12 chemical extinguishers, 1 hook and ladder truck, 1 patrol wagon, 8 hose carriages, 1 hose wagon, 1 supply wagon; hose, cotton good 7,000 ft., leather good 800 ft.; 18 horses, value \$4,500; value of fire department equipment \$30,000; value of buildings owned by city \$45,000; total ann expenses of department \$10,000; total membership 504; Gamewell alarm; 20 street boxes. Chief engineer, John Cohen.*

WATER SUPPLY—Source, springs; system, pumping to reservoir and standpipe; reservoir cap 410,442 gals; 2 pumping engines, dy cap 6,000,000 gals; 191 hydrants; pipe 39½ miles, 3 to 24 in dia; 1 meter; pressure, domestic 90 pounds; waterworks owned by city; cost to construct \$278,482; ann expenses \$8,065. Pres of com, W. J. Hartzell; supt, Jacob B. Snyder.*

Altoma, Blair Co., population 39,000; fire area 1,890 acres; mercantile buildings, wood, stone and brick, 3 to 5 stories; private, brick and wood, 3 to 5 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire

WATER SUPPLY—Source, Catherine creek; system, gravity; 17 hydrants; pipe 3½-8 miles, 10, 8, 6 in dia; 6 valves; pressure, domestic 45 pounds, fire same; works owned by city; cost to construct \$19,347. Supt, Wm. H. Porter.

Weston, Umatilla Co., population 1,000; fire area 20 acres; mercantile buildings, brick, 1 and 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 250 ft.; value of equipment \$22,000; value of buildings \$200.

WATER SUPPLY—Source, wells; system, gravity; reservoir cap 100,000 gals; 10 hydrants; pipe 4 miles, 2 to 8 in dia; 8 valves; pressure 70 pounds; works owned by city; cost to construct \$10,000; ann expenses \$300. Supt, E. W. Dentora.

Woodburn, Marion Co., population 1,500; fire area 15 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—ladders and buckets.

WATER SUPPLY—Source, wells; system, pumping to tank, cap 20,000 gals; 8 hydrants; pipe 1 mile; quality of water good; pressure 40 pounds; works owned by D. L. Remington & Son.

Woodlawn, Multnomah Co (see Portland).

PENNSYLVANIA.

department—5 steam fire engines, 3 chemical engines on wheels, 14 private chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, all kinds, 1 fire patrol; hose, cotton good 8,000 ft, inferior 3,000 ft; 31 horses, value \$4,000; value of fire department equipment \$35,000; value of buildings occupied \$80,000; total ann expenses of department \$12,000; total membership 700, volunteer members; Union alarm; street boxes 51. Chief engineer, Frank P. Molly.

WATER SUPPLY—Source, surface and spring water; system, gravity; reservoirs, cap 68,000,000 gals; hydrants 192; pipe 42 miles, 3 to 16 in; valves 340; taps 7,120; pressure 15 to 75 pounds; waterworks owned by city; original cost to construct \$259,000; expenses of construction to date \$359,000; ann expenses \$62,000. Supt, S. A. Galley.

Ambler, Montgomery Co., population 1,073; mercantile buildings, wood, 2½ stories; private, wood, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 350 ft, rubber good 800 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,500; total membership 64, volunteers; bell alarm. Chief engineer, Thomas Redington.*

WATER SUPPLY—Source, springs, 1½ miles east of city; system, gravity; reservoirs cap 35,000,000 gals; hydrants 14; pipe 6 miles, 12 to 4 in; valves 20; pressure 40 pounds; waterworks owned by company; original cost to construct \$50,000. Supt, Thomas Rose.

Annville, Lebanon Co., population 1,480; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, leather 300 ft; value of fire department equipment \$2,700; value of buildings occupied \$1,600; total expenses for past year \$173; membership 75, volunteers. Chief engineer, Titus Shodley.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 200,000 gals; pipe 2 miles, 8 to 4 in dia; pressure 52 pounds; cost to construct \$17,000; works owned by company. Secy, C. Dean.

Ansonville, Clearfield Co., population 700; fire area 20 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 3 stories; wooden roofs permitted; no fireworks ordinance. No fire department each family supplied with hose.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 20,000 gals; pipe 1½ miles, 3 in dia; 30 hydrants; 7 valves; 66 taps; pressure 30 pounds; works owned by company; cost to construct \$1,500. Pres, S. J. Miller; secy, J. C. Davison.

Apollo, Armstrong Co., population 3,900; fire area 1 mile sq; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 department book and ladder truck, 2 hose carriages, all kinds, 2 hose wagons; hose, cotton good 2,000 ft; value of fire department equipment \$600; total membership 80, volunteer members; electric bell alarm; street boxes 8; 1 hook and ladder company, 2 hose companies. Chief engineer, Walter J. Guthrie.

WATER SUPPLY—Source, Kiskiminnos river; system, pump to tanks; pipe 8 to 4 in dia; 20 hydrants; cost to construct \$15,000. Supt., A. Randolph.

Archibald, Lackawanna Co., population 4,032; fire area 2 sq miles; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, linen good 1,500 ft; value of equipment \$1,000; value of buildings occupied \$800; membership 30, volunteers; whistle alarm. Foreman, Wm. Blake.

WATER SUPPLY—Source, creek; system, gravity; 20 hydrants; pipe 5 miles, 1½ to 10 in dia; 20 valves; pressure 100 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$500. Supt., J. Bishop.

Arnot, Tioga Co., population 2,000. Fire department—1 fire engine, 1 hose reel and 1,000 ft hose owned by coal company and under its direction. Engineer, R. T. Dodson.

WATER SUPPLY—Source, streams; system, gravity; 2 steam pumps; reservoirs. Supt., R. T. Dodson.

Ashland, Schuylkill Co., population 7,346; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton rubber lined 2,400 ft; value of fire department equipment \$1,970; value of 2 buildings \$6,000; total ann expenses of department \$225; total membership 51, volunteers. Chief engineer, W. J. Reed.

WATER SUPPLY—Source, Little Mahoney creek; system, gravity; 2 reservoirs, cap 3,800,000 gals; 36 hydrants; pipe 9 ½ miles, 3 to 12 in dia; Cassin valves; pressure 120 pounds; waterworks owned by city; cost to construct \$85,000; ann expenses \$1,200. Supt., Jos. Hardenock.

Ashley, Luzerne Co., population 4,500; fire area 300 acres; buildings, brick and wood, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 3 hose carriages; hose, rubber good 2,400 ft; 2 hoses, value \$500; value of fire department equipment \$6,912; value of buildings occupied \$4,000; total ann expenses of department \$383; total membership 38, volunteers; steam gong alarm. Chief engineer, W. T. Reed.

WATER SUPPLY—Source, lake; 19 hydrants; pipe 3 miles, 4 to 14 in dia; pressure 110 pounds; waterworks owned by company. Town clerk, J. B. Newhart.

Athens, Bradford Co., population 4,000; mercantile buildings, brick and wood, 2 stories; private, wood 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 5 hose carriages; hose, rubber 700 ft, cotton good 1,800 ft, leather good 400 ft; value of buildings occupied \$3,000; total membership 100, volunteers. Chief engineer, James G. Lowman.

WATER SUPPLY—Source, Water Co. (see Sayre) 18 hydrants; pipe 7 miles; pressure 120 pounds; waterworks owned by company. Supt., A. B. Shearer.

Audensried, Carbon Co., population 4,000; buildings, wood, 1 and 2 stories. No fire department; buckets and hose; whistle alarm.

WATER SUPPLY—Source and system not given; reservoir cap 2,500,000 gals; steam pumping engines; 11 hydrants; pipe 3 miles, 6 to 4 in dia; pressure 55 pounds. Supt., J. I. Hollenbeck.

Austin, Potter Co., population 2,500; fire area 50 to 75 acres; mercantile buildings, wood and brick 3 and 3 stories; private, wood, 3 stories; wooden roofs permitted except in fire limits; fireworks ordinance. Fire department—3 hose carriages, all kinds, 3 hose wagons; hose, linen good 500 ft, inferior 200 ft, cotton good 3,000 ft, inferior 200 ft; 2 hoses, value \$400; value of fire department equipment \$4,000; value of buildings occupied

\$1,000; total ann expenses of department \$1,500; total membership 35, volunteers; whistle alarm. Chief, J. B. Collins.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,200 bbls; pumping engines; 11 hydrants; pipe 3 ½, 2, 6, 5 and 4 in dia; valves 12; pressure 50 to 180 pounds; works owned by company; cost to construct \$13,000; ann expenses \$13,500. Supt., Geo. D. Hellwig.

Avondale, Chester Co., population 850; fire area 400 acres; mercantile buildings, brick, stone and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 500 ft, poor 200 ft; value of fire department equipment \$900; total ann expenses of department \$10; total membership 25, volunteers; bell alarm. Chief marshal, W. J. Dixon.

WATER SUPPLY—Source, well and streams.

Bangor, Northampton Co., population 2,509; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; slate roofs. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,200; total membership 35, volunteers; bell alarm. Foreman, Chas. L. Grubb.

WATER SUPPLY—Source, springs; system, gravity; reservoir; pipe 4 ½ miles, 8 to 4 in dia; 11 hydrants. Pres., J. M. Young; supt., C. K. Steer.

Beaver, Beaver Co., population 1,700; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, cotton good 250 ft; membership 25, volunteers. Chief engineer, G. A. Scroggs, M. D.

WATER SUPPLY—Source, Ohio river through filter; system, pumping to reservoir, cap 300,000 gals; pumping engines, dy cap 150,000 gals; 60 hydrants; pipe 7 miles, 18 to 2 in dia; waterworks owned by village; pressure 30 pounds; cost to construct \$50,000; ann expenses \$2,500. Secy of coun., E. N. Biggett; supt., J. W. Harton.

Beaver Falls, Beaver Co., population 9,735; fire area 400 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,500 ft; 3 hoses, value \$900; value of fire department equipment \$15,000; value of buildings occupied \$25,000; total ann expenses of department \$2,000; total membership 35, volunteers; telephone alarm. Chief, Dr. Wm. Raymer.

WATER SUPPLY—Source, Beaver river; system, pumping to reservoir; reservoir cap 3,000,000 gals; pumping engines, dy cap 9,000,000 gals; 80 hydrants; pipe 30 miles, 4 to 12 in dia; 91 valves; 1 meter; 1,300 taps; pressure 45 to 135 pounds; waterworks owned by company; cost to construct \$160,000; ann expenses \$8,000. Pres., H. W. Hartman.

Bedford, Bedford Co., population 2,242; fire area 385 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,700 ft, inferior 300 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 60; electric bell alarm; 7 street boxes. Chief, S. F. Statler.

WATER SUPPLY—Source, mountain springs; system, gravity; 3 reservoirs, cap 9,000,000 gals; 14 hydrants; pipe 1 ½ miles, 2 to 4 in dia; 30 valves; pressure 30 to 40 pounds; waterworks owned by town; cost to construct \$35,000; ann expenses \$700. Mayor, S. F. Statler; town clerk, D. S. Horn.

Bellefonte, Centre Co., population 3,940; fire area 390 acres; mercantile buildings, brick and stone, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, 2 hose wagons; hose, rubber good 2,200 ft, leather good 350 ft; value of fire department equipment \$7,200; value of 3 buildings occupied \$3,000; total ann expenses of department \$1,000; total member-

ship 100, volunteers. Chief, J. M. Cunningham.*
WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 280,000 gals; pumping engines, dy cap 1,500,000 gals; 48 hydrants; pipe 10 miles; 4 waterworks owned by city; cost to construct \$100,000; ann expenses \$4,000. Supt, Sam'l D. Ryan.

Bellwood, Blair Co., population 2,500; fire area 500 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; total ann expenses of department \$100; total membership 60, volunteers; bell alarm. Chief engineer, George Martz.
WATER SUPPLY—Source, Laurel Run; system, gravity; 27 hydrants; pipe 6 miles; 50 valves; 100 taps; pressure 80 pounds; waterworks owned by city; cost to construct \$31,000. Chairman of com, T. P. Gheer.

Bennett, Allegheny Co. (See Millvale.)

Berwick, Columbia Co., population 3,000; fire area 640 acres; buildings, brick, stone and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, extension ladders and axes, 2 hose carriages, 2 hose wagons; hose, cotton good 1,300 ft, inferior 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$400; membership 20, paid, volunteers 15; steam gong alarm. Chief engineer, Andrew D. Seeley.*

WATER SUPPLY—Source, springs; system, gravity; reservoir, cap 15,000,000 gals; 29 hydrants; pipe 17 miles, 3 to 12 in dia; 60 valves; 650 taps; pressure 72 pounds; cost to construct \$58,000, to date \$70,000; ann expenses \$1,500. Supt, Geo. De Puy.

Bethlehem, Northampton Co., population 8,000; fire area 4 miles; buildings, brick, stone and wood, 1 to 5 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 6 hose carriages; hose, cotton good 2,200 ft, leather good 500 ft; value of fire department equipment \$1,800; value of buildings occupied \$28,000; total ann expenses of department \$18,000; total membership 65; bell alarm; 2 engine companies, 2 hose companies. Chief engineer, John Van Horn.*

WATER SUPPLY—Source, springs; system, direct pumping; pumping engines, dy cap 1,200,000 gals; 73 hydrants; pipe 8 miles; pressure 72 pounds; cost to construct \$75,000; ann expenses \$4,800. Supt, Chas. Bodder.*

Birdsborough, Berks Co., population 2,261; fire area 640 acres; buildings, brick and stone, 2 and 3 stories; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,700; value of property owned \$5,200; expenses for past year \$600; total membership 72, volunteers. Chief engineer, I. W. Miller.

WATER SUPPLY—Source, Indian Run; system, gravity; impounding reservoir, cap 28,000,000 gals; 30 hydrants; pipe 10 miles, 4 to 10 in dia; 84 valves; pressure 60 to 90 pounds; waterworks owned by company; cost to construct \$50,000. Supt, Ward Harrison.*

Blairsville, Indiana Co., population 4,000; fire area 100 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carts, siamese couplings used; hose, cotton good 1,700 ft, inferior 100 ft; value of fire department equipment \$2,200; 50 volunteer members; bell alarm. R. R. Co. has 1 hose cart, 400 ft cotton hose and 1 horse. Chief, J. M. Harvey.*

WATER SUPPLY—Source, Conemaugh river; system, pumping to reservoir; reservoir cap 200,000 gals; pumping engines, dy cap 200,000 gals; 40 hydrants; pipe 64 miles; pressure 40 to 60 pounds; waterworks owned by town; cost to construct \$29,000; ann expenses \$1,800. Supt, H. W. Ferguson.

Bloomersburgh, Columbia Co., population 5,000; fire area 1½ sq miles; mercantile buildings, brick, 3 and 4 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordi-

nanee. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 2 supply wagons; hose, cotton good 1,500 ft, leather inferior 800 ft; value of fire department equipment \$3,000; rent of buildings occupied \$2,000; total membership 75, volunteers; bell alarm. Foreman, W. H. Webb.

WATER SUPPLY—Source, Fishing creek; system, pumping to reservoir and direct; reservoir cap 1,500,000 gals; pumping engines, dy cap 3,750,000 gals; 56 hydrants; pipe 10 miles, 4 to 12 in dia; 60 valves; 800 taps; pressure, domestic 70, fire 150 pounds; waterworks owned by company; cost to construct \$50,000. Supt, Geo. W. Welliver.

Blossburg, Tioga Co., population 3,000; fire area 640 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hose carriage, 3 hose wagons; hose, linen good 950 ft, fair 50 ft; value of fire department equipment \$4,625; value of buildings occupied \$2,500; total ann expenses of department \$150; total membership 120, volunteers; bell alarm. Chief engineer, J. G. Griffiths.

WATER SUPPLY—Source, stream; system, gravity; reservoir cap 500,000 gals; 40 hydrants; pipe 6 miles, 4 to 8 in dia; 25 valves; 100 taps; pressure 90 pounds; waterworks owned by company; cost to construct \$15,000; ann expenses \$1,000. Supt, F. H. Stratton.

Boyerstown, Berks Co., population 2,000; fire area 250 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2 and 3 stories; tin and shingle roofs. Fire department—1 steam fire engine, 4 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 500 ft, leather poor 500 ft; value of fire department equipment \$10,000; value of 2 buildings occupied \$2,500, total membership 100, volunteers; bell alarm. Chief engineer, Jacob Schupp.

WATER SUPPLY—Source, springs; system, direct pumping from reservoir, cap 25,000 gals; 6 hydrants; pipe 3 miles, 3 to 6 in dia; pressure 200 pounds; waterworks owned by company; ann expenses \$2,500. Supt, J. Swelhart.*

Braddeock, Allegheny Co., population 10,000; fire area 4,000 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,000 ft, inferior 2,500 ft, rubber good 500 ft; 2 horses, value \$500; value of equipment \$4,500; value of buildings occupied \$3,000; ann expenses \$900; total membership 55, paid full time 2, 53 volunteers; fog horn and electric alarm; 16 street boxes; 3 fire companies. Chief engineer, C. H. Streets.

WATER SUPPLY—Source, river; system, direct pumping; pumping engines, dy cap 2,500,000 gals; 55 hydrants; pipe 15 miles, 2 to 20 in dia; pressure 80 to 100 pounds; cost to construct \$85,000. Supt, G. L. Jones.*

Bradford, McKean Co., population 11,496; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; shingle and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, private chemical extinguishers, 1 hook and ladder truck, 11 hose carriages, all kinds; hose, cotton good 3,500 ft, linen good 1,500 ft; value of fire department equipment \$28,000; value of buildings occupied \$14,000; total ann expenses of department \$3,000; total membership 300, volunteers; Gamewell alarm; 20 street boxes. Chief engineer, D. A. Kopp.

WATER SUPPLY—Source, Marilla and Gilbert brook; system, gravity; 2 reservoirs, cap 35,000,000 gals; 125 hydrants; pipe 30½ miles, 14 to 3 in dia; 390 valves; 2,900 taps; pressure, domestic 95 pounds, fire same; works owned by city; cost to construct to date \$228,289.52. Supt, S. D. Hefner.

Bridgeport, Montgomery Co., population 3,000; fire area 1 sq mile; buildings, brick, stone and wood, 1 and 2 stories. Fire department—1 hose carriage; hose, cotton good 1,300 ft; value of equipment \$2,000; value of buildings occupied \$6,000; membership 118, volunteers. Pres, J. H. Hampton, chief, Samuel Coates.

WATER SUPPLY—Source, Schuylkill river; system, pumping to reservoir and direct; reservoir

cap 3,000,000 gals; pumping engines, dy cap 1,000,000 gals; 46 hydrants; pipe 6 miles, 8 to 4 in dia; 18 valves; 280 taps; pressure 80 pounds; cost to construct \$40,000; works owned by company. Supt, Samuel Costa.

Bristol, Bucks Co., population 7,500; fire area 680 acres; mercantile buildings, wood, stone and brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 4 hose carts; hose, cotton good 3,500 ft; value of fire department equipment \$7,550; value of buildings occupied \$8,000; total ann expenses of department \$800; total membership 180, volunteers; bell alarm; 2 fire companies. Chiefs, N. P. Chase, George Vansant.

WATER SUPPLY—Source, Delaware river; system, pumping to standpipe and direct; cap of standpipe 30,000 gals; 3 pumping engines, dy cap 3,000,000 gals; 65 hydrants; pipe 9 miles, 4 to 16 in dia; 30 valves; 895 taps; pressure 60 pounds; waterworks owned by company; cost to construct \$39,000, cost to date \$72,500; ann expenses \$3,600. Supt, A. K. Joyce.

Brookville, Jefferson Co., population 2,478. Fire department—1 hook and ladder truck, 2 hose carts; hose, 1,000 ft; total membership 40, volunteers.*

WATER SUPPLY—Source, North Fork creek; system, pumping to tanks; 4 tanks, cap 300,000 gals; pumping engines, dy cap 1,000,000 gals; 27 hydrants; pipe 8½ miles, 4 to 8 in dia; 220 taps; pressure 88 pounds; waterworks owned by company; cost to construct \$28,000; ann expenses \$2,000. Supt, Jackson Heber.

Brownsville, Fayette Co., population 2,500; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder, 1 hose carriage; 1,000 ft of rubber hose.*

WATER SUPPLY—Source, Monga river; system, pumping to reservoir; reservoir cap 1,000,000 gals; pumping engine, dy cap 1,000,000 gals; 15 hydrants; pipe 11 miles, 4 to 8 in dia; 18 valves; pressure, domestic 120 pounds, fire same; works owned by company; cost to construct \$20,000. Pres, C. L. Snowden.

Butler, Butler Co., population 8,734. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton rubber lined good 2,000 ft, rubber good 300 ft; total membership 225, volunteers. Chief engineer, A. L. Reiber.*

WATER SUPPLY—Source, Conococheague creek; system, pumping to reservoir; reservoir cap 2,500,000 gals; pumping engines, dy cap 33,000 bbls; 62 hydrants; pipe 17 miles; 4 valves; pressure 110 pounds; waterworks owned by company; cost to construct \$48,000. Supt, W. B. Meredith.*

California, Washington Co., population 2,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—4 chemical extinguishers and buckets.

WATER SUPPLY—Source, wells.

Cannonsburg, Washington Co., population 2,113. Fire department—2 chemical extinguishers, 1 hook and ladder truck, other apparatus, gum buckets and ladders.

WATER SUPPLY—No waterworks.

Canton, Bradford Co., population 1,400; fire area 1 mile sq; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,200 ft, inferior 300; value of fire department equipment \$1,380; value of buildings occupied \$5,000; total ann expenses of department \$807; total membership 61, volunteers; bell alarm. Chief, Thomas M. Watts.

WATER SUPPLY—Source, stream; system, gravity; 1 reservoir; 14 hydrants; pipe 2½ miles, 4 to 12 in dia; pressure 280 pounds; waterworks owned by company; ann expenses \$450. Supt, Lee Brooks.

Carbondale, Lackawanna Co., population 12,000; fire area 60 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 3 hose carriages; hose, cotton good 1,000 ft, leather good 400 ft, rubber good 500 ft; value of fire department

equipment \$1,800; value of buildings occupied \$3,500; total ann expenses of department \$1,800; total membership 195, volunteers; steam gong alarm. Chief, P. F. Moffett.

WATER SUPPLY—Source, springs; system, gravity; 2 reservoirs, cap 200,000,000 gals; 61 hydrants; pipe 13 miles, 2 to 14 in dia; pressure, domestic 75, fire 80 pounds; waterworks owned by company; cost to construct \$24,500, cost to date \$100,000; ann expenses \$1,500. Supt, Wm. McMullen; asst supt and manager, Wm. S. Teets.

Carlisle, Cumberland Co., population 10,000; fire area 800 acres; mercantile buildings, brick, 8 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial turntable truck, 7 hose carriages; hose, cotton good 2,500 ft, leather good 1,500 ft; value of equipment \$14,000; value of buildings occupied \$15,000; ann expenses \$1,500; total membership 700, volunteers. Pres, Chas. W. Strohm.

WATER SUPPLY—Source, Conodoquinet creek; system, pumping to reservoir; 2 reservoirs, cap 2,500,000 gals; pumping engines, dy cap 1,000,000 gals; 80 hydrants; pipe 15 miles, 4 to 10 in dia; 25 valves; pressure 30 pounds; waterworks owned by company; ann expenses \$1,800. Supt, Chas. E. Ramsey.*

Catawagua, Lehigh Co., population 3,704; fire area 300 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted, but slate used; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 5 hose carriages, 2 private hose carts, all factories have private hose, etc; hose, cotton good 1,200 ft, rubber good 1,000 ft, some linen, leather good 400 ft; value of fire department equipment \$12,000; value of buildings occupied \$18,000; total ann expenses of department \$500; total membership 280, volunteers; whistle alarm. Chief, C. R. Horn.*

WATER SUPPLY—Source, Lehigh river; system, pumping to standpipe and reservoir; reservoir cap 500,000 gals; pumping engines, dy cap 80,000 gals; 60 hydrants; pipe 5 miles, 4 to 10 in dia; pressure 45 to 50 pounds; waterworks owned by company; cost to construct \$80,000; ann expenses \$1,200. Supt, Leonard Peckitt.

Catawissa, Columbia Co., population 2,261; buildings, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines (old), 1 hose cart; hose, cotton fair 250 ft.

WATER SUPPLY—Source, mountain springs; system, gravity; works owned by company.

Centralla, Columbia Co., population 3,500; fire area 350 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$800; total ann expenses of department \$78; total membership 77, volunteers. Marshal, L. E. Davis.

WATER SUPPLY—Source, springs; system, gravity; pipe 8 miles; quality of water good; works owned by company; cost to construct \$10,000. Supt, A. S. Miller.*

Centre Hill, Centre Co., population 441; mercantile buildings, wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 100,000 gals; pipe 11-4 miles, 6 to 4 in dia; quality of water good; pressure 100 pounds; works owned by company; cost to construct \$5,000; ann expenses \$40. Pres, Fred Kurtz; secy and treas, Wm. Wolf.

Chambersburg, Franklin Co., population 9,000; fire area 1,500 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, rubber good 2,500 ft; value of fire department equipment \$12,000; value of buildings occupied \$15,000; total ann expenses of department \$4,000; total membership 300, volunteers; bell alarm. Chief engineer, G. Fred Gibbs.

WATER SUPPLY—Source, Conococheague creek; system, pumping to reservoir and direct; reservoir cap 3,800,000 gals; pumping engines, dy cap

2,225,000 gals; 80 hydrants; pipe 12 miles, 4 to 12 in dia; 50 valves; 1,140 taps; pressure, domestic 37 to 45, fire 70 pounds; waterworks owned by town; cost to construct \$55,000, cost to date \$120,000; ann expenses \$3,667. Supt. A. C. McGrath.

Charleroi, Washington Co. Fire department not reported.

WATER SUPPLY—Source, river; system, pumping direct; pipe 3½ miles, 4 to 8 in dia; 30 valves; 75 taps; pressure, domestic 150, fire 180 pounds; waterworks owned by company; original cost to construct \$10,000; ann expenses \$800. Supt. T. B. Hastings.

Chester, Delaware Co., population 23,000; fire area 7 sq miles; mercantile buildings, brick, iron and wood, 2½ stories; private, brick, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—4 steam fire engines, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 8 hose carriages, all kinds, 4 hose wagons; hose, rubber good 3,000 ft, inferior 500 ft, cotton good 1,500 ft, inferior 300 ft; 14 horses, value \$4,000; value of fire department equipment \$26,000; value of buildings occupied \$30,000; total ann expenses of department \$11,000; total membership 700, paid full time 6, paid part time 9; telephone alarm. Chief engineer, John W. Booth.

WATER SUPPLY—Source, Delaware river; system, pumping to reservoir and direct; reservoir cap 15,000,000 gals; pumping engines, dy cap 8,000,000 gals; 100 hydrants; pipe 40 miles, 4 to 24 in dia; 240 valves; 100 meters; pressure 75 to 150 pounds; waterworks owned by company. Supt. W. B. Chadwick.*

Clarendon, Warren Co., population 1,297; fire area 150 acres; buildings, wood, 1½ and 2 stories; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 750 ft, inferior 250 ft, rubber good 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$400; total membership 200, volunteers; 1 fire police; bell and whistle alarm. Chief engineer, S. L. Titus.

WATER SUPPLY—Source, well; system, pumping to tank; tanks cap 3,000 bbls; pumping engines, dy cap 72,000 gals; hydrants 10; pipe 1½ miles, 1½ to 4 in; pressure, domestic 30, fire 95 pounds; waterworks owned by an estate; cost to construct \$4,000; ann expenses \$1,300. Supt. A. F. Crossman.

Clarion, Clarion Co., population 2,164; fire area 250 acres; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, cotton good 1,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total membership 25, volunteers; bell alarm. Chief engineer, Thos. B. Richards.

WATER SUPPLY—Source, Clarion river; system, pumping to reservoir, cap 192,000 gals; pump, cap 400 gals per minute; 28 hydrants; pipe 4 miles, 4 to 6 in dia; 18 valves; 8 meters; pressure 42 pounds; waterworks owned by company; cost to construct \$18,000; ann expenses \$1,200. Supt. J. G. Meisinger.*

Clearfield, Clearfield Co., population 2,500; buildings, wood, 2 stories. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton 500 ft, inferior 500 ft; value of fire department equipment \$3,000, 1 building occupied; total membership 24, paid part time 2, remainder volunteers. Foreman, O. M. Fleck.*

WATER SUPPLY—Source, Moose creek; system, gravity; 45 hydrants; pipe 14 miles, 3 to 12 in dia; 60 valves; 350 taps; pressure, domestic 80, fire 90 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$900. Supt. H. F. Bigler.

Coatesville, Chester Co., population 4,000; fire area 1,200 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,000 ft, leather inferior 500 ft; value of fire department equipment \$6,000; value of buildings occupied \$5,000; total ann expenses of depart-

ment \$550; total membership 60, volunteers; bell alarm. Chief engineer, Geo. W. Brooks.*

WATER SUPPLY—Source, springs; system, gravity; collecting reservoir, cap 1,000,000 gals; distributing reservoir, cap 300,000 gals; pumping engines, dy cap 300,000 gals; 53 hydrants; pipe 5 miles, 3 to 8 in dia; pressure, domestic 26 pounds; waterworks owned by borough; cost to construct \$60,000; ann expenses \$250. Chairman of com and supt, L. H. Humphrey.*

Columbia, Lancaster Co., population 11,400; fire area 7 miles; buildings, brick and stone, 2 and 3 stories; tin and slate roofs used; no fireworks ordinance. Fire department—3 steam fire engines, 12 chemical extinguishers, 1 aerial truck, 7 hose carriages; hose, cotton good 2,500 ft, inferior 500 ft; value of buildings occupied \$14,500; expenses of department for past year \$2,100; total membership 1,300, 6 paid part time; 4 fire companies. Chief engineer, Wm. W. Yealust. 4 shifting engines on R. R. are equipped, have 100 ft cotton hose each.

WATER SUPPLY—Source, Susquehanna river and spring; system, gravity and pumping to reservoir; 3 reservoirs; pumping engines, dy cap 1,200,000 gals; 93 hydrants; pipe 12 miles; 2 meters; pressure 60 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$5,000. Supt. W. B. Fasig.*

Conemaugh, Cambria Co. (See Johnstown.)

Conneautville, Crawford Co., population 757; buildings, brick and wood, 2 and 3 stories. Fire department—1 horse-power engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 5,000 ft, rubber good 10,000 ft, leather good 5,000 ft; value of fire department equipment \$4,000; total ann expenses of department \$25; total membership 100, volunteers; bell alarm. Chief engineer, H. B. Haultrop.

WATER SUPPLY—Source, canal and creek.

Connellsville, Fayette Co., population 6,500; fire area 500 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,800 ft; value of fire department equipment \$3,000; value of buildings occupied \$7,000; total ann expenses of department \$3,418; total membership 41, volunteers; bell and whistle alarm; 2 hose companies. Fire marshal, Wm. McComack.*

WATER SUPPLY—Source, springs; system, gravity; 2 reservoirs, cap 30,000,000 gals; 75 hydrants; pipe 14-3.5 miles, 4 to 12 in dia; pressure 110 pounds; waterworks owned by company; cost to construct \$120,000. Gen. manager, W. S. Kuhn; supt, G. A. Munson.*

Conshohocken, Montgomery Co., population 5,479; fire area 640 acres; mercantile buildings, brick, 2½ and 3 stories; private, brick, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 hose carriages; hose, cotton good 1,750 ft; 3 horses, value \$1,000; value of fire department equipment \$9,000; value of buildings occupied \$8,500; total ann expenses of department \$1,725; total membership 183, paid full time 1, volunteers 145; bell alarm. Chief, Miles Stemple.

WATER SUPPLY—Source, Schuylkill river; system, pumping to reservoir; cap 2,000,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 55 hydrants; pipe 8½ miles, 8 to 10 in dia; 80 valves; 504 taps; pressure 40 to 80 pounds; waterworks owned by company; cost to construct \$100,000; ann expenses \$1,700. Supt. W. E. Ferrier.

Corry, Erie Co., population 5,677; fire area 650 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; iron and slate roofs; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 3 jumpers; hose, cotton good 1,600 ft, inferior 1,300 ft; rubber good 400 ft, inferior 400 ft; value of fire department equipment \$10,500; value of buildings occupied \$12,000; total ann expenses of department \$500; total membership 185; 2 bell alarms; 1 hook and ladder company, 3 hose companies. Chief, J. O. Nautes.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir, cap 3,500,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 63 hydrants; pipe 12 miles, 2 to 12 in dia; 54 valves; pressure, domestic 120 pounds; waterworks owned by com-

pany; cost to construct \$100,000, to date \$150,000; ann expenses \$4,000. Pres. I. B. Brown.

Condorport, Potter Co., population 1,530; fire area 300 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; tin roofs; fire works ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, buckets; hose, rubber good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$600; total ann expenses of department \$300; total membership 80, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, W. K. Jones.

WATER SUPPLY—3 streams $\frac{1}{4}$ miles distant; system, gravity; reservoir 7,500,000 gals; hydrants 32; pipe 7 miles, 6 to 8 in dia; 12 valves; pressure 50 to 80 pounds; cost of work to construct \$21,000 ann expenses \$800. Pres. A. G. Olmstead.

Cressona, Schuylkill Co., population 1,481; buildings, brick and wood, 1 to 3 stories; fire works ordinance. Fire department—hose, ladders, etc.*

WATER SUPPLY—Source, not stated; pipe 2 $\frac{1}{2}$ miles, 10 in dia; works owned by company. Pres. Wm. H. Mellon; town clerk, Wm. A. Grieff.*

Curwensville, Clearfield Co., population 2,000; buildings, brick and wood, 2 and 3 stories. Fire department—1 chemical engine on wheels, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,000; total ann expenses of department \$1,000; total membership 40, volunteers; bell alarm. Chief engineer, A. E. Patton.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoir 2,000,000 gals; 37 hydrants; pipe 8 miles, 12 to 4 in dia; 51 valves; pressure, domestic 50 to 140 pounds, fire 200 to 100 pounds; works owned by company; cost to construct \$35,000; ann expenses \$400. Pres. A. E. Patton.

Danville, Montour Co., population 8,500; fire area 1,200 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 and 3 stories; wooden roofs permitted; fire works ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 hose carriages, all kinds; hose, cotton 3,900 ft, inferior 100 ft; value of fire department equipment \$15,000; value of buildings occupied \$15,300; total ann expenses of department \$1,250; total membership 300, volunteer members; bell alarm. Chief engineer, H. A. Schiek.

WATER SUPPLY—Source, 2 wells; system, direct pumping; pumping engines, dy cap 2,000,000 gals; 112 hydrants; pipe 14 miles, 2 to 12 in dia; 37 valves; 1,400 taps; pressure 70 to 100 pounds; waterworks owned by borough; cost to construct \$189,000; ann expenses \$5,000. Supt. E. S. Miller.

Darby, Delaware Co., population 2,200; mercantile buildings, brick, 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 500 ft. Chief engineer, Wm. Cork.

WATER SUPPLY—Source, creek.

Derry Station, Westmoreland Co., population 2,500; fire area 300 acres; buildings, wood and brick, 2 stories; wooden roofs permitted; fire works ordinance. Fire department—2 hose carriages; hose, rubber good 500 ft; value of equipment \$700; value of building \$800; total membership 40, volunteers. Chief, Jos. Mock.

WATER SUPPLY—Source, streams; system, gravity; 2 reservoirs, cap 5,500,000 gals; 29 hydrants; pipe 8 miles, 4 to 10 in dia; 71 valves; pressure 65 to 115 pounds; cost to construct \$105,000; ann expenses \$2,500. Supt. Murray Forbes.

Downingtown, Chester Co., population 2,800; mercantile buildings, stone, brick and wood, 3 stories; private, brick, 2 $\frac{1}{2}$ and 3 stories; wooden roofs permitted; fire works ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 750 ft, leather good 750 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total membership 100, volunteer members; bell alarm. Chief engineer, J. L. Weid-in.

WATER SUPPLY—Source, springs; system, gravity; 3 reservoirs, cap 1,370,520 gals; 73 hydrants; pipe 8 miles, 6 to 3 in dia; 33 valves; pressure 32 pounds; taps 373; waterworks owned by company;

cost to construct \$65,000; ann expenses \$500. Supt. Jas. Hamilton.

Doylestown, Bucks Co., population 1,753; fire area 1 sq mile; buildings, wood and stone, 2 to 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fire works ordinance. Fire department—2 hose carriages; hose, leather good 1,000 ft, inferior 200 ft; value of equipment \$2,000; value of buildings occupied \$800; membership 50, volunteers. Chief, Wm. J. Wintyen.*

WATER SUPPLY—Source, springs; system, pumping to reservoir and direct; reservoir cap 300,000 gals; pumping engines, dy cap 1,750,000 gals; 47 hydrants; pipe 7 miles, 3 to 12 in dia; 67 valves; 490 taps; pressure, domestic 70, fire 130 pounds; waterworks owned by borough, cost to construct \$35,000, to date \$50,000; ann expenses \$2,000. Supt. Wm. J. Wintyen.

DuBois, Clearfield Co., population 8,000; fire area 800 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; tin roofs; fire works ordinance. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 8 hose carriages, siamese couplings used; hose, cotton good 1,000 ft, rubber good 2,500 ft, inferior 800 ft; 8 horses, value \$3,000; value of buildings occupied \$4,000; total membership 300, volunteers. Chief engineer, J. Whitehall.*

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 2,000,000 gals; 1 force pump; 68 hydrants; pipe 15 miles, 4 to 12 in dia; 38 valves; 400 taps; pressure 70 to 100 pounds; waterworks owned by company; cost to construct \$120,000, cost to date \$125,000; ann expense \$1,200. Supt. Geo. B. Campbell.

Duke Centre, McKean Co., population 700; fire area 150 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fire works ordinance; causes of fire investigated. Fire department—1 chemical engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 500 ft, inferior 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; 1 rented \$38 per year; total membership 50, volunteers; bell and steam whistle alarm; 3 fire companies. Chief, A. C. Rogers.

WATER SUPPLY—Source, Knapp creek; system, pumping to tank, cap 40,000 gals; 1 force pump; 13 hydrants; 1 $\frac{1}{4}$ miles pipe, 2 and 3 in dia; ann expenses \$10. Supt. D. T. Duke.

Duncannon, Perry Co., population 2,260; buildings, wood, 2 stories. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 600 ft, leather good 1,100 ft, inferior 500 ft; steam whistle alarm. Chief, S. L. Shull.

WATER SUPPLY—Source, rivers and wells. (Town voted to put in waterworks.)

Duncansville, Blair Co., population about 2,000; fire area 1 square mile; mercantile buildings, wood and brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—2 hose carriages, all kinds; hose, rubber new 1,000 ft; value of fire department equipment \$1,200; total membership 80, volunteer members; steam gong and bell alarm; 2 hose companies. I. C. Hess.

WATER SUPPLY—Source, Hollidaysburg Waterworks; system, gravity; hydrants 10; miles of pipe 6, 12 in; pressure 115 pounds; waterworks owned by city.

Dunmore, Lackawanna Co., population 10,000; fire area 500 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fire works ordinance. Fire department—3 hose carriages; hose, cotton good 1,400 ft, rubber good 500 ft; value of fire department equipment \$3,026; expenses for past year \$2,000; value of buildings occupied \$15,000; total membership 200, volunteers. Chief, engineer, Victor Burschel.

WATER SUPPLY—Source, surface water; system, gravity; 4 hydrants; pipe 5 miles, 6 meters; pressure 100 pounds; waterworks owned by company. Pres. John B. Smith; supt. Wm. Gilmore.*

East Brady, Clarion Co., population 1,228; buildings, wood, 2 stories; fire works ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$2,200; value of buildings occupied \$250; total membership 130, volunteers;

bell alarm. Chief engineer, N. E. Graham. **WATER SUPPLY**—Source, springs; system, gravity; pumping to reservoir, cap 1,000,000 gals; pumping engine, dy cap 50,000 gals; pipe 5 miles, 2 in dia; 300 hydrants, 2 in dia; 2 meters; pressure 80 to 100 pounds; waterworks owned by company; cost to construct \$5,000; ann expenses \$500. Supt, J. J. Foster.

East Mauch Chunk, Carbon Co., population 3,000; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 650 ft; value of fire department equipment \$700; value of buildings occupied \$3,000; membership 42, volunteers; whistle alarm. Chief engineer, F. Engler.

WATER SUPPLY—Source, 2 small streams; system, gravity; pipe 4 miles. For further information, see Mauch Chunk. Supt, S. S. Smith.

Easton, Northampton Co., population 17,000; fire area 900 acres; mercantile buildings, brick, stone and wood, 3 stories; private, wood, 3 stories; slate roofs, wooden roofs permitted; no fireworks ordinance. Fire department—3 steam fire engines, 1 chemical engine on wheels, 12 chemical extinguishers, 2 hook and ladder trucks, 1 Hayes aerial truck, 4 hose carriages, 1 hose wagon, 1 ambulance; hose, cotton good 2,200 ft, rubber good 4,500 ft; 11 horses, value \$2,000; value of fire department equipment \$35,000; value of buildings occupied \$25,000; total ann expenses of department \$12,000; total membership 35, paid full time 11, paid part time 24, call men; Gamewell alarm; 31 street boxes; 3 engine companies, 1 hook and ladder company. Chief, Thos. P. Hicker.

WATER SUPPLY—Source, Delaware river; system, direct pumping, surplus to reservoir; reservoir cap 4,000,000 and 7,000,000 gals; pumping engines, dy cap 4,000,000 gals; 100 hydrants; pipe 23 1/2 miles, 4 to 20 in dia; 1,500 taps; pressure 20 to 120 pounds; waterworks owned by company; ann expenses \$10,000. Supt, R. F. Rader.

East Stroudsburg, Monroe Co., population 2,200; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories, slate roofs; no fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,000; total membership 26, volunteers; bell alarm. Chief engineer, John McNeal.

WATER SUPPLY—Source, Sambo creek; system, gravity; reservoir cap 4,000,000 gals; 30 hydrants; pipe 8 miles, 6 to 12 in dia; 21 valves; 300 taps; works owned by borough; cost to construct \$37,500, to date \$42,000; ann expenses \$100. Supt, Samuel S. Detrick.

East York, York Co., population 1,200; fire area radius of 2 miles; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 1,000 ft, poor 200 ft; value of fire department equipment \$4,000; value of buildings occupied \$1,200; expenses for past year \$375; total membership 138, volunteers. Foreman, Edward Blauser.

WATER SUPPLY—Source, see York.

Ebensburgh, Cambria Co., population 1,202; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton 1,300 ft, rubber 400 ft; value of fire department equipment \$3,300; 1 building occupied; total ann expenses of department \$75; total membership 70, volunteers 5, bell alarm. Chief, F. C. Lloyd.

WATER SUPPLY—Source, artesian wells and pond; system, pumping to reservoir; reservoir cap 132,192 gals; pumping engines, dy cap 293,760 gals; 18 hydrants; pipe 2 1/2 miles, 4 to 6 in dia; 12 valves; pressure 10 to 75 pounds; waterworks owned by borough; cost to construct \$16,000; ann expenses \$500. Supt, R. L. Thomas.

Edenburg, Clarion Co., population 888; buildings, wood and brick, 1 and 2 stories. Fire department—1 hook and ladder truck, 1 hose carriage; hose, 550 ft; value of fire department equipment \$300; value of buildings occupied \$250; total membership 46.

WATER SUPPLY—Source, well; system, pumping to tank; tank cap 400,000 gals; 5 hydrants; pipe 2,000 ft; pressure 75 pounds; waterworks owned by company, controlled by borough; cost to con-

struct \$2,000; ann expenses \$200. Supt, Robert Cortlett.*

Edwardsville, Luzerne Co., population about 4,500; fire area 1 mile square; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hose carriages, all kinds; hose, cotton good 1,600 ft, inferior 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total ann expenses of department \$1,000; total membership 50, volunteers. Chief engineer, Daniel S. Edwards.

WATER SUPPLY—Not reported.

Elkland, McKean Co., population 1,050; fire area 600 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; shingle and tin roofs; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, linen good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$600; total ann expenses of department \$158; total membership 50, volunteers; bell and whistle alarm; 1 hook and ladder company, 1 hose company. Chief engineer, T. L. Hartwell.

WATER SUPPLY—Source, Allegheny river; system, pumping to tank; tank cap 40,000 gals; pumping engines, dy cap 250,000 gals; 21 hydrants; pipe 2 1/2 miles, 3 in dia; pressure 110 pounds; waterworks owned by private parties; cost to construct \$3,000, to date \$4,500; ann expenses \$250. Supt, T. L. Hartwell.

Elizabethtown, Lancaster Co., population 1,500; fire area 640 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 500 ft, inferior 600 ft; value of fire department equipment \$5,000; value of buildings occupied \$4,000; total ann expenses of department \$100; total membership 75, volunteers; bell alarm. Chief engineer, I. D. Weigand.

WATER SUPPLY—Source, large cisterns and streams.

Elkland, Tioga Co., population 1,500; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, several chemical extinguishers, 1 hose carriage; hose, linen good 60 ft; 2 horses; value \$250; value of fire department equipment \$4,000; value of buildings occupied \$1,000; volunteer members; bell alarm. Chief engineer, E. Snider.*

WATER SUPPLY—Source, drilled wells.

Emmaus, Lehigh Co., population about 1,500; fire area 300 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, leather good 500 ft, inferior 1,000 ft; bell alarm. Chief engineer, M. M. Maroka.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 800,000 gals; 15 hydrants; pipe 2 miles, 4 and 3 in dia; 200 taps; pressure 100 ft head; cost to construct \$19,500, to date \$30,000; ann expenses \$40. Supt, Jonathan Fritz.*

Emmerton, Venango Co., population 1,126; buildings, brick and wood. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, slamee couplings used; hose, cotton 650 ft, rubber good 600 ft, linen 200 ft; value of fire department equipment \$2,000; total ann expenses of department \$100; total membership 50, volunteers. Chief, A. R. Newton.

WATER SUPPLY—Source, springs and Allegheny river; system, gravity and pumping to reservoir; reservoir cap 325,000 gals; 20 hydrants; pipe 10 miles, 3 to 6 in dia; 25 valves; pressure 70 to 100 pounds; waterworks owned by company. Supt, J. A. Weller.

Emporium, Cameron Co., population 3,000; fire area 200 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, inferior 500 ft, cotton good 2,180 ft, inferior 400 ft; value of fire department equip-

ment \$1,600; value of buildings occupied \$5,500; volunteer members 130; bell alarm; 4 fire companies, 1 hook and ladder company, 3 hose companies. Chief engineer, H. A. Houpt.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,600,000 gals; hydrants 38; pipe 12 miles, 4 to 8 in dia; 40 valves; taps 300; pressure, domestic 90 to 120, fire 90 to 120 pounds; waterworks owned by company; original cost to construct \$40,000, cost to date \$57,000; ann expenses \$1,000. Supt, W. D. White.

Ephratah, Lancaster Co., population 2,000; fire area 500 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 1,000 ft, rubber good 50 ft, inferior 400 ft; value of fire department equipment \$3,300; value of buildings occupied \$1,500; total ann expenses of department \$150; total membership 100, volunteers; bell alarm. Chief, G. F. Groff.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 60,000 gals; pipe 4,000 ft, 4 and 6 in dia; 6 hydrants; 3 valves; 200 taps; pressure 70 pounds; waterworks owned by company; cost to construct \$4,000. Supt, S. L. Sharp. (Company intend to lay 8 miles of pipe, and set 50 hydrants, and also build a 500,000 gal reservoir.)

Erie, Erie Co., population (1890 census) 40,630; fire area 4 miles square; mercantile buildings, brick and iron, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire district; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 2 chemical extinguishers, 1 aerial truck, 2 hose carriages, all kinds, 5 hose wagons; hose, cotton good 14,000 ft, inferior 2,000 ft; 27 hoses, value \$7,000; value of fire department equipment \$40,000; value of buildings occupied \$78,000; total ann expenses of department \$38,000; total membership 60, paid full time 23, paid part time 27; telegraph alarm; street boxes 52. Chief engineer, J. J. McMahon. (Chemical engine and hose wagon contemplated).

WATER SUPPLY—Source, Lake Erie; system, pumping to reservoir, standpipe and direct; reservoir cap 35,000,000 gals; pumping engines, dy cap \$1,000,000 gals; hydrants 444; miles of pipe 85, 4 to 30 in; valves 700; taps 9,000; pressure 30 to 90 pounds; waterworks owned by city; cost to construct \$1,250,000; ann expenses \$15,000. Secy, Wm. Hinrod.

Etta, Allegheny Co., population 3,787; fire area 100 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, linen good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total ann expenses of department \$500; total membership 35, volunteers; Gamewell alarm; 5 street boxes. Chief, W. G. Smith.

WATER SUPPLY—Source, Allegheny river; system, pump to standpipe and direct; cap of standpipe 270,000 gals; pumping engines, dy cap 3,000,000 gals; hydrants 35; pipe 6½ miles, 2½ to 12 in dia; valves 35; 415 taps; pressure 130 pounds; works owned by town; cost to construct \$50,000. Supt, C. W. Drake.

Everett, Bedford Co., population 2,500; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories. Fire department—1 steam engine, 3 hose carriages; hose cotton good 500 ft, rubber 1,000 ft; value of fire department equipment \$4,800; value of buildings occupied \$5,000; total ann expenses of department \$200; total membership 40, volunteers; bell alarm. Chief engineer, John C. Chamberlain.

WATER SUPPLY—Source, spring, reservoir. (See Mt. Pleasant.) Town clerk, L. F. Fisher.

Fairbairns, Fayette Co., population 1,400; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department; bucket brigade.

Fleetwood, Berks Co., population 1,000; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$300; value of buildings occupied \$200.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 1,000,000 gals; hydrants 20; pipe 4 miles, 4 to 10 in dia; 80 valves; pressure, domestic 75, fire same; waterworks owned by company; original cost to construct \$20,000; ann expenses \$300. Pres of com, George B. Schoeffer.

Forest City, Susquehanna Co., population 4,000; fire area 2 sq miles; mercantile buildings, wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 250 ft, poor 475 ft, cotton good 1,500 ft; 1 horse, value \$150; value of fire department equipment \$6,000; value of building occupied \$2,000; total membership 40, paid part time 18, volunteer members 24; electric alarm; 6 street boxes. Chief engineer, George E. Maxey.

WATER SUPPLY—Source, Lackawanna river; system, pumping direct, surplus to reservoir; reservoir cap 1,500,000 gals; pumping engines, dy cap 1,250,000 gals; hydrants 13; pipe 6½ miles, 8, 6 and 4 in dia; 24 valves; 287 taps; pressure, domestic 10 to 100, fire 140 pounds; waterworks owned by company; original cost to construct \$18,000; expenses of construction to date \$35,000; ann expenses \$2,000. Supt, L. H. May.

Foxburg, Clarion Co., population 640; fire area 40 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—3 chemical extinguishers, 1 hose carriage; hose, cotton interior 300 ft, rubber good 500 ft; total membership 30, volunteers. Chief, Frank B. Dale.

WATER SUPPLY—Source, Allegheny river; system, pumping to 3 tanks, cap 1,200 barrels of 42 gals each; pumping engines, dy cap 20,000 gals; 15 hydrants; pipe 2 miles, 2 to 4 in dia; waterworks owned by company; pressure 185 pounds; cost to construct \$5,000; ann expenses \$1,200. Supt and eng, Frank B. Dale.

Frackville, Mohawk Co., population 2,520; buildings, wood, 2 and 3 stories; wooden roofs permitted. No organized fire department.

WATER SUPPLY—Source, artesian wells; system, pump direct to reservoir, cap 50,000 gals, dy cap 75,000 gals; pipe 2 miles, 4 in dia; 5 valves; pressure, domestic 50 pounds; waterworks owned by company; cost to construct \$20,000. Manager, F. S. Haupt.

Franklin, Venango Co., population 7,000; fire area 500 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, linen 1,500 ft, rubber good 800 ft, inferior 200 ft; 3 hoses, value \$600; value of fire department equipment \$15,000; value of buildings occupied \$8,000; total ann expenses of department \$2,000; total membership 20; paid full time 4, part time 16; Gamewell alarm; 11 street boxes. Chief engineer, George O. Ellis.

WATER SUPPLY—Source, springs and French creek; system, gravity and direct pumping; reservoir cap 17,000,000 gals; pumping engines, dy cap 1,400,000 gals; 56 hydrants; pipe 20 miles, 4 to 24 in dia; pressure, domestic 45, fire 80 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$3,500. Supt, J. H. Hanna.

Freeburgh, Snyder Co., population 600; fire area 60 acres; buildings, wood and brick, 1 to 4 stories; wooden roofs permitted. Fire department—2 hand engines, useless bucket brigade; value of fire department equipment \$100.

WATER SUPPLY—Source, wells.

Freeland, Luzerne Co., population 2,000; fire area 200 acres; mercantile buildings, wood and brick, 2 and 2½ stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, poor 100 ft; value of fire department equipment \$2,500; value of buildings occupied \$300; total ann expenses of department \$150; total membership 56, volunteers; bell alarm. Chief engineer, Robert Dunlap.

WATER SUPPLY—Source, 3 artesian wells; system, pumping to reservoir and direct, reservoir cap 500,000 gals; 3 pumping engines, dy cap 250,-

000 gals; 22 hydrants; pipe 5 miles; 520 taps; pressure, domestic 65, fire 65 to 80 pounds; waterworks owned by company; cost to construct \$21,000; ann expenses \$2,500. Supt, Henry Fisher.

Freeport, Armstrong Co., population 1,800; buildings, brick and wood, 2 and 3 stories; iron shingle roofs; 2 hose carriages; hose, linen good 1,000 ft; value of fire department equipment \$1,000; bell alarm. Chief, F. A. Seitz.

WATER SUPPLY—Source, Allegheny river; system, pumping to 2 tanks; 30 hydrants; pressure 85 pounds; waterworks owned by company. Secy and treas, Geo. M. Hill.

Gallitzin, Cambria Co., population 2,500; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 and 2 1/2 stories; wooden roofs permitted; fireworks ordinance; causes of fire not investigated. Fire department not reported.*

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 500,000 gals, dy cap 100,000 gals; 18 hydrants; pipe 2 miles, 8 to 2 in dia; 8 valves; pressure, domestic 10 to 140, fire 15 to 125 pounds; waterworks owned by company; original cost to construct \$22,000. Supt, Thos. McNeill.

Gettysburg, Adams Co., population 3,550; fire area 1 mile by 1/2 mile; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$4,000; total ann expenses of department \$100; total membership 75, volunteer members; bell alarm. Chief engineer, J. E. McCammon.

WATER SUPPLY—Source, driven well; system, pumping to reservoir; reservoir cap 900,000 gals; pump dy cap 60,000 gals; 39 hydrants; pipe 2 1/2 miles, 3 and 6 in dia; 10 meters; pressure 50 pounds; waterworks owned by company; cost to construct \$24,000; ann expenses \$1,000. Supt, Robert Caldwell.

Gilberton, Schuylkill Co., population 3,500; fire area 2 sq miles; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 3 hose carriages, all kinds, 1 hose cart; hose, rubber good 2,000 ft, cotton good 1,000 ft, inferior 300 ft, leather good 2,000 ft, inferior 750 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; volunteer members 300. Chief engineer, Daniel D. Evans.

WATER SUPPLY—Source, not reported.

Girard, Erie Co., population 800; fire area 500 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels.

WATER SUPPLY—Source, creek and 1 cistern. Town clerk, W. Wheaton. (Waterworks contemplated.)

Girardville, Schuylkill Co., population 3,584. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages. Chief marshal, H. Schaffstahl.

WATER SUPPLY—Source, Lost creek; system, gravity; reservoir cap 200,000,000 gals; hydrants 80; pipe 4 miles, 4 and 6 in dia, through all streets; 20 valves; 200 taps; pressure 150 pounds; waterworks owned by borough; cost to construct \$16,000; ann expenses \$1,000. Supt, E. C. Wagon and Jno. Cahoon.

Glenlyon, Luzerne Co., population 3,000; mercantile buildings, brick and wood, 2 to 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 800 ft, inferior 100 ft; value of fire department equipment \$800; value of buildings occupied \$500; total membership 25, volunteer members; whistle alarm. Chief engineer, John I. Thomas.

WATER SUPPLY—Source, Harvey Lake; pipe 5 miles, 8 in dia; works owned by company. Supt, W. L. Morgan.

Gordon, Schuylkill Co., population 1,200; fire area 260 acres; mercantile buildings, 2 stories; private, wood, 2 stories. Fire department—1 hose car-

riage; hose rubber good 500 ft. Chairman, J. Henry Duncan.

Greencastle, Franklin Co., population 1,525; Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,100 ft; value of fire department equipment \$1,400; value of buildings occupied \$4,000; total membership 62, paid part time 2, volunteers 60; bell alarm. Chief engineer Carlisle Kuhn.*

WATER SUPPLY—Source, 6 cisterns, cap over 100,000 gals. Mayor, Samuel Detrich.*

Greensburg, Westmoreland Co., population 4,202; fire area 300 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and stone, 2 stories; fireworks ordinance. Fire department—3 hand engines, 12 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,900 ft, inferior 300 ft; 1 horse; value of fire department equipment \$2,500; value of 2 buildings occupied \$1,500; total ann expenses of department \$400; total membership 40, volunteers; bell alarm. Chairman, J. M. Kooner.*

WATER SUPPLY—Source, mountain streams; system, gravity; reservoir cap 257,000,000 gals; 75 hydrants; pipe 45 miles, 4 to 18 in dia; 245 valves; 950 taps; pressure 60 to 135 pounds; waterworks owned by company; cost to construct \$1,350,000. Supt, Murray Forbe.

Greenville, Mercer Co., population 4,006; fire area 1,800 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 8 chemical extinguishers, 5 hose carriages, all kinds, 1 supply wagon; hose, rubber good 1,700 ft, inferior 150 ft; value of fire department equipment \$6,000; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 60, volunteers; bell alarm. Chief engineer, Daniel P. Parkard.

WATER SUPPLY—Source, springs; system, gravity and pump to reservoir, cap 8,000,000 gals, dy cap 650,000 gals; 36 hydrants; pipe 9 miles, 4 to 10 in dia; pressure 90 pounds; waterworks owned by company; cost to construct \$123,000. Supt, Thomas Stone.

Hamburg, Berks Co., population 2,500; fire area 60 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, leather good 900 ft, inferior 100 ft; value of fire department equipment \$4,000; value of buildings occupied 1,800; total membership 90; bell alarm. Foreman, Albert Seibert.

WATER SUPPLY—Source, Mill creek; system, gravity; reservoir cap 1,000,000 gals; 25 hydrants; pipe 6 miles, 4 to 8 in dia; 44 valves; pressure, domestic 140 to 150, fire 140 to 150 pounds; waterworks owned by company. Supt, M. M. Dreihelbis.

Hanover, York Co., population 3,746; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, slamese couplings used; hose, leather good 1,600 ft; value of fire department equipment \$6,000; value of buildings occupied \$5,000; total ann expenses of department \$300; total membership 75, volunteers; bell alarm. Chief, W. H. Long.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 15,000,000 gals; 36 hydrants; pipe 7 miles, 4 to 10 in dia; 32 valves; 473 taps; pressure 80; waterworks owned by company; cost to construct \$38,325; ann expenses \$1,000. Supt, D. D. Bifern.

Harrisburg, Dauphin Co., population 39,385; fire area 29,000 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, brick and wood, 2 to 4 stories; wood and slate roofs; fireworks ordinance; causes of fire investigated. Fire department—7 steam fire engines, 4 chemical ext. nguishers, 1 aerial truck, 10 hose carriages; hose, cotton good 5,650 ft, inferior 3,750 ft; 24 horses, value \$5,400; value of fire department equipment \$30,000; value of buildings occupied \$40,000; total ann expenses of department \$10,450; total membership 1,000, volunteers; Gamewell alarm; 27 street boxes; 7 engine companies, 1 hook and ladder company, 3 hose companies.

Chief engineer, Jacob Kohler; secy, G. W. Kennedy.*

WATER SUPPLY—Source, Susquehanna river; system, pumping to standpipe and reservoir; reservoir cap 22,000,000 gals; standpipe cap 30,000 gals; pumping engines, dy cap 10,000,000 gals; 519 hydrants; pipe 37 miles, 4 to 30 in dia; 645 valves; 1,539 meters; quality of water good; pressure 45 to 80 pounds; waterworks owned by city, cost to construct est \$800,000; ann expenses \$25,360. Pres of com, Edmund Mather; secy, G. G. Kennedy.

Hastings, Cambria Co., population 2,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, rubber good 500 ft; value of buildings occupied \$75; bell alarm.

WATER SUPPLY—Source, Hastings W. Co; system, gravity; 2 hydrants; pipe 3 miles, 3 and 4 in dia; pressure 80 pounds; works owned by company; cost to construct \$3,500. Supt, P. B. Coe-grou.

Hazleton, Luzerne Co., population 11,872; fire area 12,000 acres; mercantile buildings, brick and wood, 2½ and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 15 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber 600 ft, leather good 1,700 ft; 2 horses; value of fire department equipment \$14,000; total membership 50, volunteers. Chief engineer, E. Bachman.*

WATER SUPPLY—Source, springs; system, gravity and pumping; reservoir cap 70,000,000 gals; pumping engines, dy cap 1,000,000 gals; 27 hydrants; pipe 30 miles, 3 to 8 in dia; pressure 55 to 80 pounds; waterworks owned by company; cost to construct \$50,000; ann expenses \$12,000. Supt, David Clark.

Holidaysburg, Blair Co., population 2,975; fire area 1,000 acres; mercantile buildings, brick, 2½ stories; private, wood and brick, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages, slamese couplings used; hose, linen 2,000 ft, leather good 300 ft; value of fire department equipment \$10,000; value of buildings occupied \$5,000; total ann expenses of department \$500; total membership 200, volunteers; whistle alarm. Chief, Martin Bell.*

WATER SUPPLY—Source, Runnings run and Blair's creek; system, gravity; 48 hydrants; pipe 21 miles, 6 in dia; 1,000 taps; pressure 50 pounds; fire 102 pounds; waterworks owned by borough; cost to construct \$73,000; ann expenses \$1,000. Supt, C. A. MacFarland.

Homestead, Allegheny Co., population 11,000; fire area 400 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 6 chemical extinguishers, 2 hook and ladders, 5 hose carriages, all kinds; hose, cotton good 4,000 ft; value of fire department equipment \$7,000; value of buildings occupied \$8,000; total ann expenses of department \$14,000; total membership 400, volunteer members; bell alarm, Gamewell will be built. Chief engineer, C. K. Hoyoe.

WATER SUPPLY—Source, Monacaqua river; system, pumping to reservoir; reservoir cap 2,500,000 gals; pumping engines, dy cap 2,500,000 gals; 63 hydrants; pipe 8½ miles, 4 to 14 in; 80 valves; 500 taps; pressure 20 to 120 pounds; waterworks owned by city; original cost to construct \$90,000, cost to date \$125,000. Supt, Geo. Hodfield.

Honesdale, Wayne Co., population 2,816; fire area 500 acres; mercantile buildings, brick and wood, 3 and 4 stories; private, brick and wood, 2½ and 3 stories; wooden roofs permitted. Fire department—2 steam fire engines, 2 hose carriages, slamese couplings used; hose, cotton good 2,200 ft, rubber inferior 250 ft, leather inferior 300 ft; value of fire department equipment \$10,000; value of buildings occupied \$17,000; total ann expenses of department \$500; total membership 55, paid 3; gong alarm. Chief, Robt. W. Ham.*

WATER SUPPLY—Source, lake; system, gravity; reservoir cap 1,000,000 gals; 6 hydrants; pipe 8 miles, 2 to 10 in dia; pressure 64 pounds; waterworks owned by company; cost to construct \$70,-

000; ann expenses \$1,000. Supt, D. Thayer.

Houtsdale, Clearfield Co., population 2,400; fire area 3 miles; mercantile buildings, wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,150 ft, inferior 50 ft; value of fire department equipment \$1,750; value of buildings occupied \$4,000; total ann expenses of department \$300; total membership 35, volunteer members; bell alarm, Foreman, Henry C. Walters.

WATER SUPPLY—Source, not reported.

Hughesville, Lycoming Co., population 1,400; buildings, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$800; total membership 35; bell alarm. Chief engineer, J. B. Winters.

WATER SUPPLY—Source, large well; system, pumping to reservoir; hydrants 30; pipe 8 to 4 in; waterworks owned by company. Supt, P. M. Newman.

Hummelstown, Dauphin Co., population 3,000; fire area 300 acres; mercantile buildings, brick and stone, 3 stories; private, wood and brick 2½ stories; wooden roofs permitted. Fire department—3 hand engines, 2 chemical extinguishers, 1 hose carriage; hose, linen good 2,000 ft; 1 horse, value \$200; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of department \$200; total membership 125, volunteers; bell alarm; 3 fire companies. Chief director, Chas. B. Murray.

WATER SUPPLY—Source, Swatara creek; system, pumping to standpipe and direct; 22 hydrants; pipe 3 miles, 2 to 8 in dia; pressure, domestic 75, fire 150 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$1,700. Supt, W. H. Sipie.

Huntingdon, Huntingdon Co., population 6,000; mercantile buildings, brick, stone and iron, 2 to 8 stories; private, brick and wood, 2 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, slamese couplings used; hose, cotton good 1,200 ft, leather good 2,000 ft, inferior 700 ft; hired horses; value of fire department equipment \$19,000; value of buildings occupied \$15,000; total ann expenses of department \$900; total membership 403, paid full time 3, volunteers 400; electric alarm; 2 engine companies, 1 hook and ladder company. Chief engineer, Gilbert Greenberg.

WATER SUPPLY—Source, creek; system, pumping to reservoir and direct; reservoir cap 4,000,000 gals; pumping engines, dy cap 1,500,000 gals; 42 hydrants; pipe 11 miles, 4 to 12 in dia; 45 valves, pressure, domestic 80, fire 100 pounds; waterworks owned by company; cost to construct \$80,000. Supt, D. W. Smith.

Hyndman, Bedford Co., population 1,100; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 600 ft; membership 25, volunteers. Chief, J. S. Graves.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 400,000 gals; 25 hydrants; pipe 4 miles, 10, 8, 6, 4 and 2 in dia; pressure, domestic 100 pounds, fire same; works owned by company; cost \$20,000. Pres, J. W. Madore.

Indiana, Indiana Co. (includes West Indiana) population 4,000; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical engines on wheels, 2 hook and ladder trucks, 3 hose carriages, all kinds, 1 hose wagon; hose cotton good 1,500 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,500; total ann expenses of department \$500; total membership 200, volunteer members; whistle and bell alarm. Chief engineer, H. K. Sloan.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 380,000 gals; pumping engines, dy cap 6,000 bbls; hydrants 72; pipe 8½ miles, 4 to 8 in; pressure, domestic 55, fire 135 pounds; waterworks owned by company;

original cost to construct \$40,000; expenses of construction to date \$48,000. Supt, Hugh M. Bell.

Irwin, Westmoreland Co., population 2,428; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$800; total ann expenses of department \$200; total membership 33; volunteers; bell alarm. Chief engineer, L. J. Frick.

WATER SUPPLY—Source, streams; system, gravity; reservoir cap 247,000,000 gals; 25 hydrants; pipe 8 miles, 10 to 4 in dia; 35 valves; 285 taps; pressure, domestic 65 to 100, fire 35 to 90 pounds; works owned by company; cost to construct \$35,000 to date \$50,000; ann expenses \$800. Supt, S. F. Potter; Murray Forbes, mangr.

Jemmette, Westmoreland Co., population 4,000 area 1 sq mile; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 2½ stories; wooden roofs are permitted; firework ordinance. Fire department—1 combination hand and chemical engine, and 10 private, 1 hook and ladder truck, 1 hose carriage, 3 private; hose, cotton good 700 ft; value of fire department equipment \$2,000; total membership 90, volunteers; whistle alarm. Chief, Robert Cook.*

WATER SUPPLY—Source, wells and springs.*

Jeddo, Luzerne Co., population 358; fire area 20 acres; mercantile buildings, stone, 2½ stories; private, wood, 2½ stories; shingle roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, artesian; system, gravity and pumping to standpipe; reservoir cap 10,000 gals; 12 hydrants; pipe 3 miles, 2 in dia; 2 valves; filtration; pressure 40 to 70 pounds; works owned by company. Arthur P. Goedecke.

Jenkintown, Montgomery Co., population 1,900; fire area 3 sq miles; mercantile buildings, stone and wood, 2½ to 4 stories; private, wood, 3 to 4 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, 2 hose carts; hose, cotton good 2,000 ft; 1 horse, value \$175; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$750; total membership 200, volunteers; bell alarm; 2 fire companies. Chief engineer, W. W. Nelson.

WATER SUPPLY—Source, 4 artesian wells; system, pumping to tank and standpipe, cap 317,000; tank 100,000 gals; pumping engines, dy cap 450 gals per minute; 39 hydrants; pipe 14½ miles, 8 to 4 in dia; 128 valves; 328 taps; pressure, domestic 50 to 130 pounds; waterworks owned by company; cost to construct \$48,000, to date \$70,000. Pres, M. L. Kohler; manager, J. W. Ridpath.

Jermyn, Lackawanna Co., population 3,000; fire area 480 acres; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 1,200 ft, pot 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,800; total membership 30, volunteers; electric alarm. Chief, W. Dunn.

WATER SUPPLY—Source, Aylesworth creek; system, gravity; 12 hydrants; pipe 8 miles, 2 to 18 in dia; 38 valves; pressure, domestic 80, fire 130 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$1,000. Supt, Wm. S. Hutchings.*

Jersey Shore, Lycoming Co., population about 3,000; buildings, brick and wood, 2 and 3 stories. Fire department—2 hose carriages; hose, leather good 500 ft; value of fire department equipment \$2,000; bell alarm. Chief, H. D. Fuller, M. D.

WATER SUPPLY—Source, Susquehanna river; system, pumping to reservoir, cap 2,500,000 gals; pumping engines, dy cap 1,000,000 gals; 36 hydrants; pipe 5 miles, 4 to 10 in dia; 8 valves; pressure 55 to 80 pounds; waterworks owned by company; cost to construct \$60,000; ann expenses \$2,212. Pres and supt, Frank Lemup.

Johnstown, Cambria Co., population 24,544; fire area 51 acres; mercantile buildings, brick,

3 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—8 steam fire engines, 4 chemical extinguishers, 1 aerial truck, 11 hose carriages, all kinds, 1 hose wagon; hose, rubber good 5,000 ft, cotton good 2,850 ft, inferior 1,500 ft; 16 horses; value of fire department equipment \$34,000; value of buildings occupied \$19,200; total ann expenses of department \$5,000; total membership 580, paid full time 17, volunteer members 573; bell, whistle and electric alarm; street boxes 45. Chief engineer, Geo. Haberkorn.

WATER SUPPLY—Source, mountain streams; system, gravity; reservoir cap 100,000,000 gals; cap of tanks 800,000 gals; pumps, dy cap 800,000 gals; 124 hydrants; pipe 57.5 miles, 2 to 36 in dia; 400 valves; 3,450 taps; pressure, domestic 65 pounds, fire same; works owned by company; cost to construct \$1,270,000. Supt, Jas. Williams; secy, A. H. Walters.

Jonestown, Lebanon Co., population 643; fire area 200 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, leather 80 ft.

WATER SUPPLY—Source, wells and cisterns. Burgess, J. Heilman.

Kane, McKean Co., population 3,500; fire area 2,000 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2½ and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, linen good 1,500 ft, inferior 500 ft; value of equipment \$2,000; value of buildings \$3,000; ann expenses \$1,100; membership 95. Chief, F. O. Peterson.

WATER SUPPLY—Source, Hubert river and springs, connected by pipe; tanks, cap 60,000 gals; pumping engines, dy cap 600,000 gals; 13 hydrants; pipe 4 1-2 miles; pressure 50 to 200 pounds; works owned by company; cost to construct to date \$27,500; ann expenses \$4,300. Supt, G. P. Weeks.

Kennett Square, Chester Co., population 1,320; fire area 100 acres; buildings, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, linen 600 ft, rubber 500 ft; value of fire department equipment \$1,200; value of buildings occupied \$500; total ann expenses of department \$25; total membership 65; volunteers; bell alarm. Chief, Robt. Walker.

WATER SUPPLY—Source, spring and surface water; system, pumping to reservoir and standpipe; cap 45,000 gals; reservoir cap 38,000 gals; pumping engines, dy cap 36,000 gals; 23 hydrants; pipe 6 miles, 2 to 6 in dia; pressure 5 to 40 pounds; waterworks owned by borough; ann expenses \$400. Supt, J. M. Palmer.*

Kingston, Luzerne Co., population 2,381; fire area 1,200 acres; mercantile buildings, brick and wood, 50 ft; private, wood, 30 ft; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; fire plugs; hose, fabric rubber lined good 800 ft; value of fire department equipment \$4,100; value of buildings occupied \$3,000; total membership 50, volunteers; Gamewell telegraph and steam song alarm; 2 fire companies. Chief engineer, R. B. Vaughn.

WATER SUPPLY—Source, stream; system, gravity; pressure 100 pounds; works owned by company. Supt, Geo. F. Anthony.

Kittanning, Armstrong Co., population 3,800; fire area 100 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,000 ft; 2 buildings occupied; total membership 60, volunteers; whistle alarm. Chief, J. Crum.

WATER SUPPLY—Source, Allegheny river; system, pumping to reservoir; reservoir cap 1,500,000 gals; 30 hydrants; pipe 11 miles, 6 to 10 in dia; pressure 80 pounds; waterworks owned by company. Pres, G. C. Orr; supt, W. B. Meredith.

Knox, Clarion Co., population 800; buildings, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen 250 ft, rubber good, 100 ft; value of fire department equipment \$500; 1 building occu-

pled; total membership 25, volunteers; steam whistle alarm. Chief, T. H. Kasey.

WATER SUPPLY—Source, wells; system, pumping to tank; 2 tanks, cap 28,000 gals; pump, dy cap 8,125 gals; 6 hydrants; pipe $\frac{1}{2}$ mile, 3 and 4 in dia; pressure 75 pounds; waterworks owned by borough; ann expenses \$100. Town clerk, Nelwin Tooth.*

Kutztown, Berks Co., population 1,595; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; slate and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$525; value of buildings occupied \$1,500; total ann expenses of department \$25; total membership 35, volunteers; bell alarm. Chief engineer, Ulrich J. Miller.*

WATER SUPPLY—Source, artesian well and springs; system, pumping to reservoir; reservoir cap 600,000 gals; pumping engines, dy cap 1,000,000 gals; 25 hydrants; pipe 5 miles, 8 to 4 in dia; pressure 80 pounds; works owned by company; cost to construct \$35,000. Pres, J. S. Trexler; supt, H. M. Boyer.*

Lancaster, Lancaster Co., population 33,000; fire area 2,560 acres; mercantile buildings, brick, 3 to 6 stories; private, brick and wood, 2 to 3 stories; slate roofs; causes of fire investigated. Fire department—5 steam fire engines, 4 chemical extinguishers, 1 aerial truck, 3 hose carriages, 2 hose wagons, 1 supply wagon; hose, cotton good 5,000 ft, inferior 3,500 ft; several factories have private hose; 16 horses, value \$3,200; value of fire department equipment and building \$62,800; total ann expenses of department \$18,500; total membership 40, paid full time, paid part time 28; Gamewell alarm; 38 street boxes. Chief engineer, Henry N. Howell.

WATER SUPPLY—Source, Conestoga creek; system, pumping to standpipe and reservoir; reservoir cap 6,000,000 gals; pumping engines, dy cap 21,000,000 gals; 525 hydrants; pipe 47 miles, 4 to 36 in dia; 550 valves; 20 meters; 6,000 taps; pressure 18 to 65 pounds; works owned by city; cost to construct \$558,000, to date \$650,000; ann expenses \$22,000. Supt, E. F. Fraley.

Langhorne, Bucks Co., population 727; fire area $\frac{1}{2}$ mile sq; buildings, stone and wood, 2 and $2\frac{1}{2}$ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 800 ft, poor 50 ft; membership 50, volunteers. Chief engineer, P. M. Candy.

WATER SUPPLY—Source, springs; system, pumping direct and to tanks; tank cap 42,000 gals; pumping engines, dy cap 1,250,000 gals; 9 hydrants; pipe 5 miles, 4 and 6 in; 42 valves; 130 taps; pressure 30 to 100 pounds; waterworks owned by company; cost to construct \$20,548, cost to date \$42,442; ann expenses \$1,883.58. Secy, J. S. Wright.

Lanedale, Montgomery Co., population 1,900; fire area 350 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical engines on wheels, 2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, all kinds, 3 hose wagons; hose, rubber good 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,000; total ann expenses of department \$2,000; total membership 60, volunteers; steam whistle alarm. Chief engineer, H. S. Gerhart.

WATER SUPPLY—Source, 3 artesian wells; pump to standpipe, cap 40,000 gals; pump, cap 75,000 gals in 10 hours; pipe 4 miles; 22 hydrants; 23 valves; 300 taps; pressure 50 pounds; cost to construct \$30,000, to date \$30,000; ann expenses \$1,500. Supt, James Van Fassen.

Lamadoswee, Delaware Co., population 3,000; mercantile buildings, brick and granite, 2 stories; private, stone, brick and wood, $2\frac{1}{2}$ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department. Chairman of fire com, C. Pennock.

WATER SUPPLY—Source, 3 artesian wells; system, pumping to reservoir, cap 500,000 gals; pumping engines, dy cap 40,000 gals; 5 hydrants; pipe $3\frac{1}{2}$ miles, 4 and 6 in dia; works owned by company; cost to construct \$30,000, to date \$38,013.25; ann expenses \$1,806.04. Pres, Casper Pennock.

Lamersford, Carbon Co., population 4,004; build-

ings, wood, 2 and $2\frac{1}{2}$ stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hose carriage; hose, rubber good 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,100; ann expenses \$500; membership 60, volunteers. Chief, W. Brennan.

WATER SUPPLY—Source, streams; system, gravity; impounding reservoir, cap 5,000,000 gals; $\frac{1}{2}$ hydrants; pipe 13 miles, 12 to 4 in dia; 16 valves; 365 taps; pressure 105 pounds; waterworks owned by company; cost to construct \$48,000, cost to date \$48,000; ann expenses \$500. Supt, W. D. Zehner.

Latrebe, Westmoreland Co., population 3,598; buildings, brick and wood, 2 and 3 stories; shingle, tin and slate roofs; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 850 ft; value of fire department equipment \$1,800; value of buildings occupied \$1,500; total membership 33, volunteers; bell alarm.*

WATER SUPPLY—Source, Loyalhanna creek; system, direct pumping; pumping engines, dy cap 4,100,000 gals; 45 hydrants; pipe 11 miles, 4 to 12 in dia; 495 taps; pressure, domestic 60 to 80, fire 110 to 150 pounds; waterworks owned by company; cost to construct to date \$75,000; ann expenses \$5,000. Supt, W. A. Johnston.

Lebanon, Lebanon Co., population 18,000; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton 4,200 ft, inferior 500 ft; 12 horses, value \$3,600; value of fire department equipment \$32,000; value of buildings occupied \$35,000; total ann expenses of department \$4,800. Chief engineer, J. A. Bollman.

WATER SUPPLY—Source, springs; system, gravity; 3 reservoirs, cap 28,000,000, 18,000,000 and 45,000,000 gals each; 99 hydrants; pipe 27 miles, 4 to 16 in dia; 125 valves; 2,650 taps; pressure, domestic 35 to 45, fire 60 pounds; waterworks owned by city; cost to construct \$300,000, to date \$360,000; ann expenses \$4,000. Supt, H. M. Allwin.

Leechburg, Armstrong Co., population 2,500; fire area 100 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 2 hook and ladder trucks, 2 hose wagons; 1,400 ft of linen hose; value of equipment \$1,800; value of buildings occupied \$3,000; ann expenses \$4,000; membership 70, volunteers; whistle alarm. Chief, Frank Critzer.

WATER SUPPLY—Source, Kiskaminitas creek; system, pumping to tanks, cap 60,000 gals; pumping engines, dy cap 1,000,000 gals; 38 hydrants; pipe 5 miles; quality of water good; pressure 160 pounds; works owned by company; cost to construct \$15,000; ann expenses \$1,200. Pres, J. O. Kirkpatrick; supt, H. L. George.

Lehighton, Carbon Co., population 2,959; fire area 2,560 acres; buildings, wood, 2 and 3 stories; few shingle roofs. Fire department—1 hook and ladder truck; value of fire department equipment \$400; total membership 65, volunteers. Foreman, Henry Schwartz.*

WATER SUPPLY—Source, streams; system, gravity; reservoir cap 750,000 gals; dam cap 3,000,000 gals; 45 hydrants; pipe 8 $7\frac{1}{2}$ miles, 6 to 12 in dia; 24 valves; 288 taps; pressure 75 pounds; works owned by company; cost to construct \$50,000, cost to date \$60,000; ann expenses \$400. Supt, H. Seabolt.

Lewisburg, Union Co., population 3,248; fire area 200 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, stone and wood, 2 and 3 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 3 hose carriages, 2 alarm couplings used; hose, cotton good 800 ft, inferior 300 ft, rubber good 1,500 ft; value of fire department equipment \$10,000; value of buildings occupied \$3,500; total ann expenses of department \$150; total membership 100, paid 3; bell alarm. Chief, W. J. Augustadt.*

WATER SUPPLY—Source, West Branch Susquehanna river; system, pumping to standpipe, cap 110,280 gals; pumping engines, dy cap 1,500,000 gals; 45 hydrants; pipe 5 $\frac{1}{2}$ to 10 miles, 3 to 10 in dia; 12 valves; pressure, domestic 45, fire 100 pounds; waterworks owned by company; cost to construct

\$39,203; ann expenses \$1,890. Supt, William Jones.

Lewistown, Mifflin Co., population 3,273. Fire department—1 steam fire engine, 2 hook and ladder trucks, 3 hose carriages; hose, cotton good 3,000 ft, rubber good 1,000 ft, inferior 1,000 ft, leather inferior 1,500 ft; total membership 101, paid partime 1, volunteers 100. Chief engineer, J. P. M. Sethenar.*

WATER SUPPLY—Source, wells; system, pumping to reservoir; 250 hydrants; pipe 3 miles, 3 and 8 in dia; 200 meters; works owned by company; cost to construct to date \$35,000; ann expenses \$2,300. Supt, M. Jones.

Lititz, Lancaster Co., population 1,500; fire area 200 acres; buildings, brick, 2 stories. Fire department—2 hand engines, 2 chemical engines on wheels; hose, cotton 500 ft; total membership 25, volunteers.*

WATER SUPPLY—Source, spring; system, pumping to standpipe; standpipe cap 180,000 gals; pumping engine, cap 750 gals per min; 30 hydrants; pipe 1 1/4 miles, 12 to 4 in; 25 valves; pressure, domestic 55, fire 55 pounds; waterworks owned by company; original cost to construct \$25,000; expenses of construction to date \$20,000; ann expenses \$500. Supt, Phares Imhoff.

Littletown, Adams Co., population 991; fire area 1 sq mile; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 300 ft, rubber good 200 ft; value of fire department equipment \$1,000; value of buildings occupied \$4,000; total expenses for past year \$100; membership 65, all volunteers; bell alarm. Chief engineer, Geo. W. Bliffe.

WATER SUPPLY—Source, wells. Burgess, Dr. R. S. Selps.

Lock Haven, Clinton Co., population 8,000; fire area 15 sq miles; mercantile buildings, brick and wood, 2 to 4 stories; private, brick, 2 and 3 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 6 hose carriages; hose, cotton good 3,000 ft, leather inferior 500 ft; 6 hoses, value \$900; value of fire department equipment \$15,000; value of buildings occupied \$5,000; total ann expenses of department \$3,000; total membership 175, paid full time 8, volunteers 158; bell alarm; 4 fire companies. Chief engineer, Geo. D. Fox.*

WATER SUPPLY—Source, 2 mountain streams; system, gravity; 2 reservoirs, cap 6,000,000 gals; 80 hydrants; pipe 15 miles, 4 to 12 in dia; pressure 80 pounds; waterworks owned by city; cost and construct \$130,000; ann expenses \$1,400. Supt, J. F. Griffin.*

Locust Gap, Northumberland Co., population 1,500.

WATER SUPPLY—Source, Roaring creek; system, pumping to reservoir; reservoir cap 1,250,000 gals; 2 pumping engines, dy cap 2,880,000 gals; pipe 10 miles, 4 to 10 in dia; 30 valves; pressure, domestic 150 pounds; waterworks owned by company; original cost to construct \$200,000; expenses of construction to date \$235,000. Pres of com, W. C. McConnell; supt, C. Q. McWilliams.

Luzerne, Luzerne Co., population 2,398; mercantile buildings, principally wood, some brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,300; value of buildings occupied \$2,500; total membership 75, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, H. M. Vermilye.

WATER SUPPLY—Source, wells; hydrants 11; pipe 2 miles. (See Wilkesbarre.) Borough clerk, Henry C. Johnson.

Lykens, Dauphin Co., population 2,450; fire area 140 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages, 2 hose carts; hose, cotton good 500 ft, poor 500 ft; value of equipment \$3,500; value of buildings occupied \$2,500; ann expenses \$200; membership 80, volunteers; 2 hose companies. Chief, G. D. Greiff.

WATER SUPPLY—Source, Rattling creek; sys-

tem, gravity; 28 hydrants; pipe 5 miles, 3 to 10 in dia; 12 valves; pressure 40 pounds; waterworks owned by company. Supt, J. M. Williams.*

Mahanoy City, Schuylkill Co., population 13,000; fire area 225 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 10 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 2,400 ft; 4 hoses, value \$1,000; value of fire department equipment \$20,000; value of buildings occupied \$25,000; expenses for past year \$800; total membership 500; bell alarm. Chief engineer, Thomas Harker; chairman of fire com, T. J. Edwards.

WATER SUPPLY—Source, springs; system, gravity and pumping into reservoir; reservoirs cap 100,000,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 32; pipe 18 miles, 14 to 4 in dia; 56 valves; 1,800 taps; pressure 70 to 75 pounds; waterworks owned by company; cost to construct to date \$230,000; ann expenses \$4,500. Pres and supt, E. S. Sillman.

Mahanoy Plane, Schuylkill Co., population 1,000; fire area 2 miles; buildings, wood, 2 1/2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hook and ladder trucks, 3 hose carriages; hose, leather good 2,500 ft; value of fire department equipment \$8,000; value of buildings occupied \$5,000.*

WATER SUPPLY—Source, Mud Run; system, gravity; reservoir cap 150,000,000 gals; 8 hydrants; pipe 4 miles, 6 in dia; 8 valves; works owned by company. Pres, M. Luthin.

Manheim, Lancaster Co., population 2,070; fire area 900 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance, causes of fire investigated. Fire department—2 hand engines, 3 hose carriages; hose, cotton good 1,600 ft, leather good 400 ft, poor 200 ft; value of fire department equipment \$3,000; value of 2 buildings occupied \$1,600; total membership 68, volunteers; bell alarm. Chief engineer, C. Bear.

WATER SUPPLY—Source, Lehman's creek; system, pumping to reservoir; reservoir cap 800,000 gals; pumping engines, dy cap 600,000 gals; 68 hydrants; pipe 4 1/2 miles; 33 valves; pressure 80 pounds; waterworks owned by company; cost to construct \$28,000; ann expenses \$900. Supt, J. B. Singer.*

Mansfield, Tioga Co., population 2,000; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,500; total membership 100, volunteers; bell alarm. Chief, J. A. Elliott.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 700,000 gals; 41 hydrants; pipe 8 miles; 50 taps; pressure 95 to 100 pounds; waterworks owned by company. Supt, J. A. Elliott.

Mansfield Valley, Allegheny Co., population 2,352; fire area 600 acres; buildings, wood and brick, 2 and 3 stories. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, poor 600 ft; value of fire department equipment \$1,350; value of buildings \$800; total membership 35, volunteers. Chief, John McLean.

WATER SUPPLY—Source, 15 cisterns, wells and creek. Burgess, R. J. Hardy.

Marietta, Lancaster Co., population 2,800; fire area 2,000 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine and 1 hand engine not used, 1 hook and ladder truck, 3 hose carriages, alarm-case couplings used; hose, cotton good 300 ft, leather good 600 ft, inferior 100 ft; value of fire department equipment \$8,000; value of buildings occupied \$7,000; total membership 75, volunteers; bell alarm. Chief engineer, Casper Eater.

WATER SUPPLY—Source, springs; system, gravity; reservoirs, cap 1,500,000 gals; 40 double hydrants; pipe 7 1/2 miles, 4 to 12 in dia; 33 valves; 200 taps; pressure 90 pounds; waterworks owned by

company; cost to construct \$53,000; ann expenses \$400. Supt. J. H. Haldeman.

Marysville, Perry Co., population 1,115. Fire department—1 hand engine; hose, cotton 150 ft; value of fire department equipment \$350; total membership 45, volunteers. Chief, G. E. Strasbough.*

WATER SUPPLY—Source, river and well.

Mauch Chunk, Carbon Co., population 6,000; fire area 3 miles; mercantile buildings, brick, 4 stories; private, brick and wood, 3 stories; slate and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, 1 jumper; hose, cotton good 500 ft, inferior 500 ft, rubber 300 ft, inferior 200 ft, leather good 400 ft; value of fire department equipment \$10,000; value of 3 buildings occupied \$7,000; total membership 140, paid part time 2, remainder volunteers; whistle alarm; 3 fire companies. Chief engineer, Asa P. Blakeslee.

WATER SUPPLY—Source, springs; system, gravity; 40 hydrants; pipe 6 miles, 4 to 8 in dia; 1,200 taps; pressure 60 to 80 pounds; waterworks owned by company; cost to construct \$37,500, cost to date \$45,000; ann expenses \$1,200. Supt. E. D. Bartholomew.

McConnellsburg, Fulton Co., population 602; fire area 19 acres; mercantile buildings, brick and stone, 2 stories; private, wood, brick and stone, 2 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hose carriage; hose, rubber good 1,000 ft, inferior 800 ft, leather good 100 ft; value of buildings occupied \$200; total membership 75, volunteers; bell alarm. Chief engineer, M. R. Shaffner.

WATER SUPPLY—Source, stream.

McKeesport, Allegheny Co., population 24,741; mercantile buildings, brick, 2 to 6 stories; private, brick and wood, 2 to 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 500 ft, cotton good 3,000 ft, linen good 1,000 ft; 6 horses, value \$1,000; value of fire department equipment \$10,000; value of buildings occupied \$22,000; total ann expenses of department \$20,000; total membership 10, paid full time 10; Gamewell alarm; 24 street boxes. Chief engineer, J. B. McAllister.*

WATER SUPPLY—Source, Youghiogheny river; system, pumping to reservoir; reservoir cap 5,000,000 gals; pumping engines, dy cap 11,000,000 gals; 301 hydrants; pipe 29 miles, 2 to 8 in dia; 290 valves; 3,500 taps; pressure, domestic 90 to 105, fire 90 to 105 pounds; waterworks owned by city; original cost to construct \$100,000; expenses of construction to date \$297,000; ann expenses \$21,000. Supt. Emanuel Wolf.

Meadville, Crawford Co., population 9,550; fire area 1½ sq miles; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,000 ft; 2 horses, value \$300; value of fire department equipment \$5,000; value of buildings occupied \$15,000; total ann expenses of department \$3,500; total membership 200, paid full time 2, paid part time 120; Gamewell alarm; 20 street boxes. Chief engineer, George V. Drexelstein.

WATER SUPPLY—Source, French creek; system, pumping to reservoir; reservoir cap 5,000,000 gals; pumping engines, dy cap 5,000,000 gals; 107 hydrants; pipe 22 miles, 2 to 12 in dia; 1,500 taps; pressure 20 to 115 pounds; waterworks owned by company; cost to construct to date \$182,000; ann expenses \$8,000. Supt. Geo. S. Collum.

Mechanicsburg, Cumberland Co., population 4,500; fire area 400 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, hooks, ladders, axes, ropes and extra cart; hose, rubber good 1,700 ft, inferior 300 ft; value of fire department equipment \$9,000; value of buildings occupied \$5,000; total ann expenses of department \$700; total membership 167, volunteers, paid part

time; 2 alarm bells; 2 fire companies, Chief engineer, S. M. Wagoner.

WATER SUPPLY—Source, springs; system, gravity; 2 reservoirs; 45 hydrants; pipe 18 miles, 1 to 10 in dia; quality of water pure; pressure 25 pounds; waterworks owned by company. Supt. Amos Myers.

Media, Delaware Co., population 2,736; fire area 2 sq miles; mercantile buildings, brick and stone, 3 stories; private, brick and stone, 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, leather good 600 ft; value of fire department equipment \$5,000; buildings rented; total membership 200, volunteers; telephone and bell alarm. Pres. Terrence Reilly.

WATER SUPPLY—Source, Ridley creek; system, pumping to reservoir; reservoir cap 1,500,000 gals; pumping engines, dy cap 900,000 gals; 55 hydrants; pipe 10 miles, 2 to 12 in; 30 valves; 800 taps; pressure 25 pounds; waterworks owned by city; cost to construct \$70,000, cost to date \$100,000. Supt. Henry Green.

Mercer, Mercer Co., population 2,200; buildings, wood and brick, 2 and 3 stories; wooden roofs not permitted in business portion; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carts; hose, rubber good 1,500 ft; total membership 60, volunteers. Chief engineer, W. D. Keck.

WATER SUPPLY—Source, Otter creek, filtered; system, pumping to tank and direct; pumping engines, dy cap 600,000 gals; 24 hydrants; pipe 3 miles; pressure, domestic 40, fire 125 pounds; waterworks owned by company; cost to construct \$20,000; ann expenses \$900. Pres. S. H. Miller.*

Mercersburg, Franklin Co., population 1,300; fire area 30 acres; buildings, brick, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$300; total membership 40, paid 1, volunteers; bell alarm. Chief engineer, W. H. Elliott.*

WATER SUPPLY—Source, mill race and wells; system, pumping to cisterns by Sileby engine; cost to construct \$5,000. Town clerk, M. J. Slick.*

Meshoppen, Wyoming Co., population 597; buildings, wood, 2 stories. No fire department; 48 buckets, 3 ladders.

WATER SUPPLY—Source, springs and brooks; system, gravity; 2 reservoirs, dy cap 30,000 gals; 2 hydrants; pipe 3 miles, ½ to 3 in dia; pressure 100 ft head; waterworks owned by company; cost to construct \$10,000; ann expenses \$100. Pres. E. H. Wells.*

Meyersdale, Somerset Co., population 2,300; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, 700 ft; value of equipment \$1,400; value of buildings occupied \$1,000; total membership 45, volunteers; bell alarm. Chief engineer, Wm. P. Coulehan.

WATER SUPPLY—Source, Sand spring; system, gravity; reservoir cap 700,000 gals; 20 hydrants; pipe ½ miles, 2 to 8 in dia; 25 valves; pressure 125 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses estimated \$500. Supt. E. J. Weld.

Middletown, Dauphin Co., population 6,000; fire area 1 mile; buildings, brick and wood, 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 hose carriages; hose, cotton good 17,000 ft; value of equipment \$4,500; value of buildings \$4,800; ann expenses \$1,100; membership 175, volunteers. Foreman, J. McDonald.*

WATER SUPPLY—Source, Swatara creek; system, pumping to standpipe cap 250,000 gals; pumping engines, dy cap 600,000 gals; 34 hydrants; pipe 5 miles, 4 to 12 in dia; 18 valves; 1,000 taps; pressure, domestic 60 to 65, fire 100 pounds; works owned by company; cost to construct \$90,000; ann expenses \$800. Pres. Joseph Campbell; treas. C. W. Raymond.

Mifflintown, Juniata Co., population 900; mercantile buildings, brick and wood, 2 stories; private, wood and stone, 2 and 2½ stories; wood-

on roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine.*

WATER SUPPLY—Source, Macedonia run; system, gravity; 12 hydrants; pipe 5 miles, 12 to 4 in dia; 200 taps; pressure, domestic 90, fire 90 pounds; waterworks owned by company. Pres, Dr. L. Banks.

Millford, Pike Co., population 1,000; fire area 3-4 of mile square; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire not investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, leather good 250 ft; value of fire department equipment \$1,500; value of buildings occupied \$50; 60 volunteer members; bell alarm. Chief engineer, John B. Newman.

WATER SUPPLY—Source, springs; system, gravity; 36 hydrants; pipe 5 miles, 4 to 10 in dia; 5 valves; 100 taps; pressure, domestic 90 pounds, fire same; waterworks owned by company; original cost to construct \$18,000; expenses \$75. Pres of com, J. C. Wallace; supt, Milton Armstrong.

Millersburgh, Dauphin Co., population 1,600; fire area 100 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, cotton good 250 ft; value of fire department equipment \$1,700; value of buildings occupied \$1,000; expenses for past year \$300; total membership 50, volunteers; bell alarm. Chief foreman, Chas. Droughman.

WATER SUPPLY—Source, mountain springs; system, pump to reservoir and direct, cap 750,000 gals; pumping engines, dy cap 20,000 gals per hour; 25 hydrants; pipe 5 miles, 8 to 4 in dia; 12 valves; pressure 75 to 90 pounds; works owned by company; cost to construct \$35,000; ann expenses \$300. Pres, G. W. Gilbert; mayor, W. L. Brubaker.

Millertown, Butler Co. (Barnhart's Mills P. O.), population 1,162, fire area 480 acres; mercantile buildings, wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 500 ft, rubber good 300 ft, inferior 3,000 ft; value of fire department equipment \$1,200; total ann expenses of department \$100; total membership 30, volunteers; bell alarm. Chief, W. E. Loekey.

WATER SUPPLY—Source, artesian well; system, pumping to tank; tanks, cap 72,000 gals; pumping engines, dy cap 80,000 gals; 12 hydrants; pipe 2 miles, 3 to 5 in dia; pressure, domestic 25 to 75, fire 30 to 90 pounds; waterworks owned by borough and H. L. Leopold; ann expenses \$1,200. Supt, H. A. Leopold.

Millvale, (Bennett P. O.) Allegheny Co., population 10,000; fire area 8 miles; mercantile buildings, wood and brick, 2½ and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine and 1 chemical engine on wheels not used, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 2,000 ft, inferior 500 ft; 2 hoses, value \$500; value of fire department equipment \$5,000; value of buildings occupied \$2,500; total ann expenses of department \$500; total membership 35, volunteers; gong and bell alarm. Chief engineer, Charles W. Gardner.

WATER SUPPLY—Source, Allegheny river; system, pumping to reservoir and direct; reservoir cap 1,200,000 gals; pumping engines, dy cap 2,750,000 gals; 75 hydrants; pipe 7 miles, 12 to 4 in dia; pressure, domestic 100, fire 120 pounds; waterworks owned by city; original cost to construct \$68,000. Town clerk, W. S. Cooper.

Millville, Columbia Co., population 600; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck; 34 volunteer members. Foreman, C. R. Henrie.

WATER SUPPLY—Source, wells and springs.

Milton, Northumberland Co., population 8,000; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 10 chemical extinguishers, 1 hook and ladder truck,

3 hose carriages, slamese couplings used; hose, rubber 300 ft, leather good 1,000 ft; value of fire department equipment \$7,000; value of buildings occupied \$3,000; total ann expenses of department \$300; total membership 40, paid part time; bell alarm. Chief, J. C. Suiver.*

WATER SUPPLY—Source, west branch Susquehanna river; system, pumping to reservoir, cap 2,000,000 gals; pumping engines, dy cap 600,000 gals; 83 hydrants; pipe 9 miles, 10 to 4 in dia; pressure 150 pounds; waterworks owned by company; cost to construct to date \$60,000; ann expenses \$4,500. Pres and supt, P. J. Cristie.

Minersville, Schuylkill Co., population about 4,000; fire area 650 acres; buildings, wood and brick, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,200 ft, rubber good 600 ft; value of fire department equipment \$2,500; value of 4 buildings occupied \$3,000; total ann expenses of department \$681; total membership 175, volunteers. Chief, John Helm.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 3,000,000 gals; 32 hydrants; pipe 10 miles, 14 in dia; 65 valves; pressure 125 to 150 pounds; waterworks owned by company; cost to construct to date \$80,000; ann expenses \$1,800. Supt, Chas. H. Kear.

Monongahela City, Washington Co., population 4,500; fire area 200 acres; buildings, brick and wood, 2 and 3 stories; slate and tin roofs used; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, poor 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 15, volunteers; bell and steam whistle alarm. Chief, John M. Grable.

WATER SUPPLY—Source, Monongahela river; system, pumping to reservoir; 20 hydrants; pipe 15 miles; waterworks owned by company; cost to construct est \$140,000; ann expenses est \$1,500. Pres, V. Neubert.

Montoursville, Lycoming Co., population 1,329; fire area 500 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, linen good 750 ft; value of fire department equipment \$1,339; total membership 33, volunteers. Foreman, Horace Elae.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 500,000 gals; 30 hydrants; pipe 4 miles, 4 to 10 in; 28 valves; 44 taps; pressure, domestic 64, fire 64 pounds; waterworks owned by borough; original cost to construct \$17,000. Water com, H. B. Sypher.

Montrose, Susquehanna Co., population 2,009; fire area 320 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, linen rubber lined 1,800 ft; value of fire department equipment \$5,500; value of buildings occupied \$4,000; total membership 150, volunteers; bell alarm. Chief engineer, Knoch Smith.

WATER SUPPLY—Source, lake; system, pumping to reservoir; reservoir cap 3,000,000 gals; pumping engines, cap 500 gals per min; 20 hydrants; pipe 6 miles, 8, 6 and 4 in; 200 taps; pressure 90 pounds; waterworks owned by company; ann expenses \$1,500. Supt, E. C. Sherman.

Moosic, Lackawanna Co., population not given; buildings, brick and wood, 1 and 2 stories; fireworks ordinance.*

WATER SUPPLY—Source, spring, brook; system, pump to reservoir, cap 1,250,000 gals; dy cap 1,000,000 gals; pipe 12 miles, 4 to 12 in dia; 8 hydrants; pressure 70 to 140 pounds; cost to construct \$54,000. Pres, L. D. Shoemaker; supt, Wm. Montie.*

Morrellville, Huntington Co., population 3,837; fire area 300 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; total ann expenses of department \$1,000; total membership 30, volunteers. Chief engineer, H. A. Scholz.

WATER SUPPLY—Source, 3 fire hydrants. More to be added.

Mount Carmel, Northumberland Co., population 9,900; fire area 400 acres; buildings, brick, stone and wood, 2½ and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 5 chemical extinguishers, 2 hose carriages; hose, cotton good 500 ft, leather good 1,000 ft, inferior 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department \$300; total membership 80, volunteers; bell alarm. Chief engineer, G. A. Stukel.*

WATER SUPPLY—Source, springs and artesian wells; system, gravity; 2 reservoirs, cap 6,000,000 gals; 44 hydrants; pipe 7½ miles, 10 to 2 in dia; 40 valves; 854 taps; pressure 50 to 80 pounds; waterworks owned by company; cost to construct \$38,000, cost to date \$50,000; ann expenses \$1,500. Supt. C. L. John.

Mount Jay, Lancaster Co., population 1,900; buildings, brick, 2 and 3 stories; wooden roofs not permitted. Fire department—1 hand engine, 6 hooks and 4 ladders, 2 hose carriages, all kinds; hose, rubber good 1,500 ft, inferior 300 ft, cotton good 1,000 ft; value of fire department equipment \$2,900; value of buildings occupied \$4,000; total membership 60, volunteers; electric bell alarm. Chief engineer, Joe Noba.

WATER SUPPLY—Source, Chique Salunga creek; system, pumping to reservoirs and direct; reservoir cap 750,000 gals; pumping engines, 30 hydrants; 4 miles pipe, 8, 6 and 4 in dia; 17 valves; pressure, domestic 12 to 35, fire 45 pounds; waterworks owned by town; cost to construct \$50,000; ann expenses \$2,633. Supt. Wm. Kuhn.

Mount Pleasant, Westmoreland Co., population 4,000; fire area 500 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft; value of fire department equipment \$1,800; value of buildings occupied \$500; membership 60, volunteers; bell alarm. Chief, J. A. Loar.

WATER SUPPLY—Source, Jacob's creek; system, pumping to reservoir and standpipe; reservoir cap 3,000,000 gals, standpipe cap 105,000 gals; pumping engines, dy cap 3,000,000 gals; 50 hydrants; pipe 8 miles, 4 to 16 in dia; 25 valves; pressure, domestic 45 to 100 pounds, fire any desired; waterworks owned by company. Supt. H. Coll.*

Muncy, Lycoming Co., population 1,800; fire area 320 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, slamese couplings used; hose, rubber good 1,000 ft, inferior 500 ft, leather 500 ft; 2 horses, value \$200; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total membership 60, volunteers; bell alarm. Chief engineer, C. I. Shook.

WATER SUPPLY—Source, mountain spring, 3½ miles distant; system, gravity; reservoir cap 1,500,000 gals; pumping engines, dy cap 350,000 gals; 21 hydrants; pipe 7½ miles, 10 to 4 in dia; 35 valves; pressure 108 pounds; works owned by company; cost to construct \$38,000; ann expenses \$260. Supt. J. Shoemaker.*

Myerstown, Lebanon Co., population 1,800; fire area 4 miles, mercantile buildings, brick and wood, 2 stories. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 700 ft, rubber 200 ft, leather 400 ft; value of fire department equipment \$5,756; value of 2 buildings occupied \$4,800; total membership 300, volunteers; bell alarm. Chief, A. H. Garmany.

WATER SUPPLY—Source, wells and cisterns.

Nanticoke, Luzerne Co., population 14,000; fire area 2,000 acres; mercantile buildings, brick and wood, 2½ and 3 stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,600 ft, inferior 600 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,200; total ann expenses of department \$500; total membership 125, volunteers; steam whistle and electric alarm; 9 street boxes; 1 hook and ladder

company, 4 hose companies. Chief, W. H. Hedden.

WATER SUPPLY—Source, Honeye creek; system, gravity and pumping to standpipe; pumping engines, dy cap 3,600,000 gals; pipe 15 miles, 14 to 4 in dia; hydrants 48; pressure, domestic 20 to 95, fire 27 to 106 pounds; works owned by company. Secy, H. Whiteman; supt, G. T. Morgan.*

Nazareth, Northampton Co., population 1,318. Fire department—2 old hand engines, 1 hook and ladder truck, 1 hose carriage; hose, leather good 700 ft. Chief, E. A. Clewell.*

WATER SUPPLY—Source, spring; system, pumping to reservoir, cap 125,000 gals; pumping engines, dy cap 125,000 gals; 19 hydrants; pipe 2 miles, 4 in dia; pressure 60 pounds; waterworks owned by company; cost to construct \$15,000; ann expenses \$500. Supt. S. R. Odenweider.

New Bethlehem, Clarion Co., population 1,026; fire area 50 acres; mercantile buildings, wood, 2 stories; fireworks ordinance. Fire department—3 chemical engines on wheels, 2 hose carriages, 1 hook and ladder truck; hose, 1,300 ft; value of fire department equipment \$3,100; value of buildings occupied \$900; total ann expenses of department \$40; total membership 40, volunteers. Chief, E. V. Marsh.

WATER SUPPLY—Source, Red Bank creek; system, pumping to reservoir; pumping engines, dy cap 1,280,000 gals; 13 hydrants; pipe 1-1½ miles; filtration stone; pressure 85 pounds; waterworks owned by company; cost to construct \$11,775; ann expenses \$900. Pres. W. M. Moore; supt, Geo. S. Thomas.

New Brighton, Beaver Co., population 6,000; fire area 800 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 4 hose carriages; hose, good 2,100 ft; value of fire department \$4,000; value of buildings occupied \$4,500; ann expenses \$1,000; total membership 33, volunteers. Chief, H. D. Merriok.

WATER SUPPLY—Source, Beaver river; system, pumping to reservoir and direct; reservoir cap 600,000 gals; pumping engines, dy cap 1,000,000 gals; 61 hydrants; pipe 13 miles, 2 to 10 in dia; 30 valves; 7 meters; pressure 130 pounds; waterworks owned by company; cost to construct \$65,000; ann expenses \$3,400. Supt. John D. King.*

New Castle, Lawrence Co., population 14,000; fire area 640 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—8 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages; hose, rubber good 4,000 ft; 6 horses, value \$1,100; value of fire department equipment \$12,000; value of buildings occupied \$23,300; total ann expenses of department \$12,500; total membership 120, paid full time 6, part time 4; Gamewell alarm; 24 street boxes. Chief, James H. Brown.

WATER SUPPLY—Source, Shenango river; system, pumping to reservoir, cap 7,500,000 gals; pumping engines, dy cap 5,000,000 gals; 137 hydrants; pipe 19 miles, 2 to 12 in dia; 1,100 taps; pressure 115 pounds; works owned by company; cost to construct \$175,000; ann expenses \$11,000. Supt. J. W. Taylor.

New Hope, Bucks Co., population 1,200; fire area 1 mile sq; mercantile buildings, stone and brick, 2½ stories; private, wood and brick, 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage; hose, linen good 600 ft, leather good 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$500; total ann expenses of department \$160; total membership 50, volunteer members; bell alarm. Foreman, A. B. Stockton.

WATER SUPPLY—Source, canal, river and mill dam.

New Kensington, Westmoreland Co., population 1,500; fire area 1,200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$700; value of buildings occupied \$300; total membership 50, volunteers; bell alarm. Chief, James P. Mulvihill.*

WATER SUPPLY—Source, Allegheny river; sys-

tem, gravity; tank cap 319,400 gals; 40 hydrants; pipe 5 miles, 4 to 16 in dia; 100 valves; pressure, domestic 80, fire 80 pounds; works owned by company; cost to date \$95,000. Supt. C. H. Armstrong. (In course of construction a 3,000,000 gal pump.)

New Oxford, Adams Co., population 600; fire area 320 acres; buildings, brick, 2 and 3 stories; slate and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, 800 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,000; total membership 60, volunteers; bell alarm. Chief, W. C. Trimmer.

WATER SUPPLY—Source, wells and cisterns.

Newport, Perry Co., population 1,600; fire area 100 to 125 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage, bucket brigade; hose, cotton good 1,000 ft, linen good 200 ft; value of fire department equipment \$1,300; value of buildings occupied \$200; total membership 30. Foreman, John L. Gunderman.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 1,000,000 gals; hydrants 24; pipe 3½ miles, 10 and 8 in dia; 11 taps; pressure 124 pounds; waterworks owned by company; cost to construct \$30,000. Supt. Chas. Shuttler.

Newtown, Bucks Co., population 1,500; fire area 300 acres; mercantile buildings, brick, 2½ stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 750 ft, cotton good 200 ft, leather inferior 100 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total membership 95, volunteers; bell alarm. Chief engineer, E. K. Balderston.

WATER SUPPLY—Source, 2 artesian wells; system, pumping to reservoir, 600,000 gals; pumping engines, dy cap 228,000 gals; 24 hydrants; pipe 5 miles, 4 to 8 in dia; 16 valves; pressure 35 to 50 pounds; waterworks owned by company; cost to construct \$23,000; ann expenses \$1,000. Supt. H. Shields.*

Newville, Cumberland Co., population 1,607; mercantile buildings, brick and wood, 2 and 3 stories; fireworks ordinance. Fire department—2 hand engines, 1 hose carriage; hose, cotton good 300 ft, leather 350 ft; total membership 60, volunteers. Foreman, W. B. Over.

WATER SUPPLY—Source, wells and cisterns.

Norristown, Montgomery Co., population 20,000; fire area 2,000 acres; buildings, brick and stone, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, private chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, 1 supply wagon, 3 hose wagons; hose, cotton good 5,500 ft, poor 500 ft, rubber good 300 ft; 13 horses, value \$3,000; value of fire department equipment \$30,000; value of buildings occupied \$60,000; total ann expenses of department \$7,000; total membership 800, volunteers; Gamewell alarm; 15 street boxes, indicator in engine house; 4 fire companies. Chairman of fire com, Geo. W. Piper.

WATER SUPPLY—Source, Schuylkill river; system, pumping to reservoir, cap 11,000,000 gals; pumping engines, dy cap 8,000,000 gals; 225 hydrants; pipe 40 miles, 4 to 24 in dia; valves 300; pressure 30 to 80 pounds; waterworks owned by company; cost to construct \$300,000. Pres and supt, John Slingluff.

North Clarendon, see Clarendon.

Northeast, Erie Co., population 1,528; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,800 ft; value of fire department equipment \$800; value of buildings occupied \$6,000; total ann expenses of department \$100; total membership 60, volunteers; bell alarm. Chief, W. H. Phillips.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 3,500,000 gals; 40 hydrants; pipe 8 miles; 20 valves; 325 taps; pressure 100 pounds; waterworks owned by town; cost to construct \$35,000; ann expenses \$500. Supt and town clerk, J. N. Leet.

Northumberland Borough, Northumber-

land Co., population 2,744; fire area 200 acres; buildings, brick and wood, 2 and 3 stories; shingle and slate roofs used; no fireworks ordinance. Fire department—1 hand engine, old, 1 hook and ladder truck; volunteer department; value of fire department equipment \$800; value of buildings occupied \$4,000; total expenses for past year \$200; membership 30. Chief engineer, Wm. B. Crist.

WATER SUPPLY—Source, wells, river and canal (Waterworks contemplated.)

North Wales, Montgomery Co., population 1,500; fire area 300 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 3 and 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,500; total membership 10, volunteers; bell alarm. Chief engineer, John Welkel.

WATER SUPPLY—Source, 2 artesian wells; system, pumping direct; reservoir cap 56,000 gals; pumping engines, dy cap 250,000 gals; hydrants 25; pipe 3-4 miles, 8 to 2 in dia; 22 valves; pressure, domestic 40 to 60 pounds, fire same; works owned by company; cost to construct \$15,000, to date \$17,874; ann expenses \$858. Supt, Frank S. Kriebel.

Oil City, Venango Co., population 11,000; mercantile buildings, brick and stone, 3 and 4 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 2,500 ft, inferior 1,000 ft; 6 horses, value \$1,200; value of fire department equipment \$10,000; value of buildings occupied \$20,000; total ann expenses of department \$5,000; total membership 16, paid full time 2, paid part time 13; Gamewell alarm; 17 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, Daniel Fisher.

WATER SUPPLY—Source, Allegheny river and springs; system, pumping to reservoir and gravity; reservoir cap 3,000,000 gals; pumping engines, dy cap 4,500,000 gals; 133 hydrants; pipe 21 miles, 4 to 12 in dia; 91 valves; 148 taps; pressure 110 pounds; waterworks owned by city; cost to construct \$160,000, to date \$233,000; ann expenses \$10,000. Supt, M. F. Johnson.

Olyphant, Lackawanna Co., population 4,063; mercantile buildings; brick and wood, 2 and 3 stories; private, brick and wood, 2 and 3½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated.*

WATER SUPPLY—Source, mountain steam; system, gravity; reservoir cap 3,500,000 gals; 25 hydrants; pipe 10 miles, 10 to 6 in dia; pressure, domestic 140, fire 175 pounds; works owned by company. Pres, James Jordan.

Orwigsburgh, Schuylkill Co., population 1,350; fire area 1 sq mile; mercantile buildings, brick and wood, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 600 ft, leather good 500 ft, poor 300 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,500; ann expenses \$700; membership 45, volunteers; whistle alarm. Chief engineer, Geo. W. Ketner.

WATER SUPPLY—Source, mountain springs; system, gravity; 32 hydrants; pipe 5 miles; 300 taps; pressure 80 to 85 pounds; works owned by town; cost to construct \$13,000, to date \$13,800. Supt, T. J. Reed.

Osceola, Tioga Co., population 838; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage.*

WATER SUPPLY—Source, wells.*

Osceola Mills, Clearfield Co., population 2,000; fire area 70 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton rubber linen good 1,200 ft, poor 300 ft; value of fire department equipment \$1,000; value of buildings occupied \$3,000; total ann expenses of department \$384.60; total membership 72, volunteers. Chief, Martin Dugan.

WATER SUPPLY—Source, springs and mountain stream; system, gravity; reservoir cap 1,000,000

gals; 27 hydrants; pipe $7\frac{1}{2}$ miles, 8 to 4 in dia; valves 36,247; tape; pressure 90 pounds; waterworks owned by company; cost to construct \$28,000; ann expenses \$250. Supt. A. S. R. Richards.

Oxford, Chester Co., population 2,300; fire area 1,280 acres; mercantile buildings, brick, 3 stories; private, brick, 2 and 3 stories; slate roofs; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; 3 hoses; hose, cotton good 1,100 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann expenses of department \$300; total membership 60, volunteers; bell alarm. Chief engineer, Geo. E. Jones.

WATER SUPPLY—Source, 2 bored wells; system, pumping to reservoir; reservoir cap 500,000 gals; pumping engines, cap 50,000 gals in 10 hours; 32 hydrants; pipe 4 and 5 miles, 6, 4 and 3 in dia; 190 taps; pressure 30 pounds; waterworks owned by borough; cost to construct \$30,000, cost to date \$50,785; ann expenses \$650. Town clerk, J. C. Kerr.

Parkersburg, Chester Co., population 1,500; mercantile buildings, brick and wood, 2 and 2½ stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 1,200 ft; 100 volunteer members. Chief, R. R. Shoemaker.*

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 290,000 gals; 13 hydrants; pipe 8 to 6 in dia; quality of water good, filtration; works owned by company. Supt, Lewis Reynolds.*

Parker's City, Armstrong Co., population 1,317; fire area 2 miles; buildings, brick and wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, 2 hose couplings used; hose, linen good 500 ft, rubber good 1,500 ft; value of fire department equipment \$3,000; value of 2 buildings occupied \$2,000; total membership 50, volunteers; bell and whistle alarm. Chief engineer, C. C. McGregor.

WATER SUPPLY—Source, Allegheny river; system, pump to tanks, cap 130,000 gals; pumping engines, dy cap 300,000 gals; 30 hydrants; pipe 8 miles, 2 to 4 in dia; pressure, domestic 40, fire 140 pounds; waterworks owned by company; cost to construct \$20,000; ann expenses \$1,800. Pres and supt, O. Tinsman.*

Patterson, Juniata Co., population 900; fire area 45 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 8 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,500 ft, leather good 450 ft; value of fire department equipment \$6,600; value of buildings occupied \$800; total ann expenses of department \$500; total membership 68, volunteer members; electric alarm; 3 street boxes. Foreman, S. B. Cramer.

WATER SUPPLY—2 systems, source, river; system, gravity; reservoir; 3 hydrants; pipe 1-4 mile, 4 in dia; 4 valves; pressure 30 pounds; other source, mountain stream; system, gravity; reservoir cap 10,000 gals; 8 hydrants; miles of pipe 9, 4 to 12 in dia; 23 valves; pressure, domestic 90, fire 90 pounds; waterworks owned by company. Supt, H. D. Funk.

Peekville, Lackawanna Co., population 2,500; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. The organization of a fire company is being agitated.*

WATER SUPPLY—Source, Archibald Water company; pipe $4\frac{1}{2}$ miles, 1½ to 10 in dia; 20 valves; 250 taps; pressure 110 pounds; works owned by company; cost to construct \$20,000; ann expenses \$100. Supt, S. W. Arnold.

Petrolia, Butler Co., population 549; buildings, wood, 1 and 2 stories; fireworks ordinance. Fire department—2 chemical extinguishers, 2 hose carriages; hose, linen good 1,000 ft, inferior 2,000 ft; value of fire department equipment \$1,800; value of 2 buildings occupied \$800; total membership 100, full paid; bell and whistle alarm. Chief engineer, A. Gilson.*

WATER SUPPLY—Source, artesian wells; system, pumping to tank and direct; tank cap 42,500 gals; pumping engines, cap 75 bbls per hr; 18 hydrants;

pipe 1½ miles, 2 in dia; pressure, domestic 60, fire 150 pounds; waterworks owned by borough; cost to construct \$500; ann expenses \$350. Supt, T. Kelghorn.

Philadelphia, Philadelphia Co., population 1,142,653; fire area 129 1-8 sq miles; mercantile buildings, brick and stone, 3 to 14 stories; private, brick, 2 to 5 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—42 steam fire engines (5 reserve), 4 chemical engines on wheels, 60 chemical extinguishers, 5 hook and ladder trucks, 7 aerial trucks, 1 fire boat, 2 combination hose wagons and chemical engine, 41 hose carriages, all kinds (5 reserve), hose, cotton good 90,000 ft, fair 10,000 ft; 213 horses; total ann expenses of department in 1893, \$824,356.75; total membership 675, paid full time; Game well alarm; 724 street boxes; insurance patrol (2 stations) with 25 members maintained by insurance companies and private parties at an ann cost of \$5,000. Chief engineer, James C. Baxter, Jr. (Order has been given for 1 water tower, 3 combination hose wagons and chemical engines, 3 aerial trucks, 2 steam fire engines, 4 Duval water towers for aerial ladders.)

WATER SUPPLY—Source, Schuylkill and Delaware rivers; system, pumping to reservoir and direct; reservoir, cap 1,017,288,814 gals; pumping engines, dy cap 230,040,000 gals; 8,884 hydrants; pipe 1,081 miles, 3 to 48 in dia; 13,584 valves; 1,116 meters; pressure, domestic 20 to 150 pounds, fire same; works owned by city. Chief engineer, John L. Ogden; supt, Frank L. Hand.

Phillipsburg, Centre Co., population 3,245; fire area 200 acres; buildings, brick and wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 4 hose carts, 2 hose couplings used; hose, cotton good 2,000 ft; value of fire department equipment \$5,000; value of 2 buildings occupied \$1,000; total membership 231, volunteers; bell alarm. Chief, Frank Weber.

WATER SUPPLY—Source, mountain stream; system, pumping to reservoir; cap 1,600,000 gals; pumping engines, dy cap 1,000,000 gals; 47 hydrants; pipe 8 miles, 2 to 8 in dia; 25 valves; pressure 40 to 80 pounds; waterworks owned by company; cost to construct to date \$60,000; ann expenses \$8,000. Supt, Henry Southard.

Phoenixville, Chester Co., population 8,514; fire area 1,600 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and stone, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 1,500 ft, leather good 680 ft, inferior 600 ft; value of fire department equipment \$5,370; value of buildings occupied \$7,000; total ann expenses \$800; total membership 88, volunteers; bell alarm. Chief engineer, Chas. W. Shafter.*

WATER SUPPLY—Source, Schuylkill river; system, pumping to reservoir; reservoir cap 2,520,596 gals; pumping engines, dy cap 2,500,000 gals; 1,100 hydrants; pipe 13 miles, 4 to 16 in dia; 400 valves; 10 meters; pressure 70 pounds; waterworks owned by borough; cost to construct to date \$40,000; ann expenses \$13,200. Supt, A. S. Vanderslice.*

Pine Grove, Schuylkill Co., population about 1,400; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 750 ft. Chief engineer, T. B. Hughes.

WATER SUPPLY—Source, stream; system, gravity; reservoir cap 1,500,000 gals; hydrants 23; pipe 5 miles, 4 to 8 in; valves 20; taps 180; pressure, domestic 70, fire 80 pounds; waterworks owned by borough; original cost to construct \$23,000. Supt, T. B. Hughes.

Pittsburgh, Allegheny Co., population 228,617; fire area 17,700 acres; mercantile buildings, wood, brick and iron, 2 to 13 stories; private, wood and brick, 2 to 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—19 steam fire engines, 4 chemical engines on wheels, 19 chemical extinguishers, 5 hook and ladder trucks, 21 hose carriages, 3 aerial trucks, 4 hose wagons; hose, cotton good 45,030 ft, inferior 7,400 ft; 122 horses value \$30,500; value of fire department equip,

ment \$170,300; value of buildings occupied \$317,310; total ann expenses of department \$338,499; total membership 258, full paid; telegraph alarm; 331 street boxes. Chief, Miles S. Humphreys; Chief Department, Public Safety, J. O. Brown.

WATER SUPPLY—Source, Allegheny river; system, pumping to reservoirs, cap 117,000,000 gals; pumping engines, dy cap 45,000,000 gals; 1,898 hydrants; pipe 332 9-10 miles, 4 to 50 in dia; 3,707 valves; 100 meters; 24,447 taps; pressure 10 to 130 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$4,582,000; ann expenses \$100,000. Supt. A. B. Shepherd.

Fittston, Luzerne Co., population 10,302; fire area 3 miles; mercantile buildings, brick, wood and stone, 3 stories; private, wood, 3 stories; fire-proof roofs; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages; hose, cotton good 2,800 ft, inferior 500 ft, rubber good 400 ft, inferior 1,100 ft; 2 horses, value \$500; value of fire department equipment \$10,000; value of buildings occupied \$5,000; total ann expenses of department \$500; total membership 200, volunteers; gong alarm; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, J. H. Mullin.*

WATER SUPPLY—Source, Susquehanna river; system, pumping to reservoirs; 2 reservoirs, cap 2,500,000 gals; pumping engines, dy cap 3,000,000 gals; 28 hydrants; pipe 21 miles; 5 meters; pressure 40 pounds; waterworks owned by company; cost to construct \$114,000; ann expenses \$5,000. Pres of com, John J. Hart.*

Plymouth, Luzerne Co., population 9,344; buildings, wood and brick, 2 stories. Fire department—3 hose companies.*

WATER SUPPLY—Source, springs, artesian wells and surface water; system, gravity and pumping to reservoirs; reservoirs cap 9,300,000 gals; pumping engines, dy cap 500,000 gals; 44 hydrants; pipe 19 miles, 2 to 12 in dia; 75 valves; 7 meters; pressure 117 pounds; waterworks owned by company; cost to construct \$125,000; ann expenses \$10,500. Supt. O. M. Lance.*

Fort Allegany, Mc Kean Co., population 1,500; fire area $\frac{1}{2}$ mile by $\frac{1}{2}$ mile; mercantile buildings, brick and wood, 2 and 3 stories; private wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,500 ft, inferior 200 ft; value of fire department equipment \$3,500; value of buildings occupied \$8,000; total ann expenses of department \$100; total membership 27, volunteers; bell alarm. Chief engineer, F. E. Rowley.

WATER SUPPLY—Source, spring, brooks; system, gravity; reservoir cap 3,000,000 gals; 28 hydrants; pipe 8 miles, 3 to 6 in; 16 valves; pressure 90 pounds; waterworks owned by company; original cost to construct \$10,000; expenses of construction to date \$25,000; ann expenses \$300. Supt. W. E. Smith.

Fort Carbon, Schuylkill Co., population 2,000; fire area 20 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, 3 ladders; hose, cotton good 500 ft, leather good 1,000 ft; value of equipment \$1,500; value of buildings occupied \$9,000; ann expenses \$400; membership 70, volunteers; bell alarm. Chief, Chas. H. Wannamaker.

Fort Perry, Allegheny Co., population 1,000; fire area 5 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, Monongahela river; system, pumping to reservoir; reservoir cap 4,000,000 gals; pumping engines, dy cap 3,000,000 gals; 30 hydrants; pipe 10 miles, 16 to 3 in dia; 120 valves; pressure, domestic 80, fire 90 pounds; waterworks owned by company; original cost to construct \$250,000. Secy and supt, John L. Miller.

Pottstown, Montgomery Co., population 13,285. Fire department—2 steam fire engines, 1 hook and ladder truck with extinguishers, 2 hose carriages, 1 hose cart; hose, canvas good 1,000 ft, inferior 500 ft, leather good 1,000 ft, inferior 500 ft; horses; total membership 806, volunteers; Chief engineer, Jos. N. Maltzberger.*

WATER SUPPLY—Source, Schuylkill river; system, pumping to reservoirs; reservoir cap 7,500,000 gals; pumping engines, dy cap 3,000,000 gals; 120 hydrants; pipe 20 miles; pressure 80 pounds; waterworks owned by company; cost to construct \$250,000. Supt. F. G. Stonaker.

Pottsville, Schuylkill Co., population est 15,000; fire area $1\frac{1}{2}$ miles sq; buildings, brick and wood, 2 to 5 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—4 steam fire engines, 1 hook and ladder truck, 7 hose carriages, 3 hose trucks; hose, cotton good 7,000 ft, poor 850 ft; 15 horses, value \$4,300; value of fire department equipment \$21,000; value of buildings occupied \$50,000; ann expenses \$5,321; membership 650, volunteers, 7 paid full time; Gamewell alarm; 22 street boxes. Chief engineer, John F. Bushar.

WATER SUPPLY—Source, mountain streams; system, gravity; 3 reservoirs, cap 450,000,000 gals; pipe 40 miles, 16 to 3 in dia; pressure 80 to 120 pounds; waterworks owned by company. Secy, W. D. Pollard.

Punxsutawney, Jefferson Co., population 3,200; fire area 75 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; tin, slate and shingle roofs. Fire department—1 chemical engine in wheels, 12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 1,200 ft, rubber good 200 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 60, volunteers; bell and whistle alarm. Chief engineer, W. C. Torrence.

WATER SUPPLY—Source, 4 artesian wells; system, pumping to reservoir; cap 80,000 gals; pumping engines, dy cap 1,000,000 gals; 21 hydrants; pipe 5.34 miles, 3 to 6 in dia; 40 valves; 250 taps; pressure, domestic 60, fire 80 to 125 pounds; waterworks owned by company; cost to construct \$25,000, cost to date \$23,000; ann expenses \$18,000. Supt. Chas. E. Ratz.

Quakertown, Bucks Co., population 2,169; fire area 15 miles; mercantile buildings, brick and wood, $2\frac{1}{2}$ stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,800 ft, inferior 300 ft; value of fire department \$1,500; value of buildings occupied \$1,200; total ann expenses for past year \$225; membership 26, volunteers; whistle alarm. Chief engineer, H. C. Stout.

WATER SUPPLY—Source, artesian wells; system, pumping to tanks of 5,000 and 10,000 gals each; wind pumping engines; pipe 2 miles, 6 and 3 in dia. (Works contemplated.)

Reading, Berks Co., population 70,000; fire area radius 1.34 miles; mercantile buildings, brick, 2 and 3 stories; private, brick, 2.34 stories; tin and slate roofs; fireworks ordinance. Fire department—10 steam fire engines, 1 chemical engine, 16 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 11 hose carriages, 1 hose wagon, 1 salvage corps, 1 patrol wagon; hose, cotton 18,000 ft, rubber good 200 ft; 43 horses, value \$8,500; value of fire department equipment \$60,000; value of buildings occupied \$100,000; total ann expenses of department \$24,000; total membership 2,800, paid full time 18; Gamewell alarm; 55 street boxes; fire patrol supported by members and city; 18 permanent members. Chief engineer, G. W. Miller.

WATER SUPPLY—Source, Hampden, Mineral and Edelman springs, Bernhardt Antietam and Maiden creeks; system, gravity and pumping to reservoirs; reservoirs cap 156,200,000 gals; pumps, dy cap 4,500,000 gals; 496 hydrants; pipe 85 miles, 4 to 30 in dia; 10,264 taps; pressure 40 to 90 pounds; waterworks owned by city; cost to construct to date \$1,450,250; ann expenses \$14,580. Pres, George Felix; supt, W. Albright.

Renovo, Clinton Co., population 4,800; fire area 1.4 mile; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carts; hose, cotton 2,500 ft; 2 buildings owned; value of equipment \$7,500; value of buildings occupied \$1,000; total ann expenses of department \$800; total membership 40, paid 80, volunteers 40. Chief engineer, John Hagan.*

WATER SUPPLY—Source, Peters run; system, gravity, with auxiliary pumping; reservoir cap

2,000,000 gals; pumping engines, dy cap 720,000 gals; 52 hydrants; pipe 5 miles, 6 in dia; 50 valves; quality of water good; pressure 150 ft head; waterworks owned by city; cost to construct \$80,000; ann expenses \$200. Supt. Geo. Burgess.*

Reynoldsville, Jefferson Co., population 3,600; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 chemical engines on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 13,000 ft; value of fire department equipment \$3,000; total membership 80, volunteers. Chief engineer, Ed. Burns.

Water Supply—Source, mountain springs; system, pumping to reservoir; cap 200,000 gals; pumping engines, dy cap 500,000 gals; 25 hydrants; pipe 5½ miles, 4 to 6 in dia; 36 valves; 200 taps; pressure 100 pounds; waterworks owned by company; cost to construct \$20,000; ann expenses \$1,500. Supt. M. S. Sterley.

Ridgway, Elk Co., population 4,000; fire area 600 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engines on wheels, 12 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,000 ft, inferior 200 ft, cotton good 200 ft; value of fire department equipment \$4,000; value of buildings occupied \$8,000; total membership 120, volunteers; 2 hose companies. Chief engineer, F. H. Ely.

Water Supply—Source, mountain streams; system, gravity; reservoir cap 800,000 gals; 28 hydrants; pipe 8 miles, 4 to 8 in dia; 36 valves; 210 taps; pressure 120 pounds; waterworks owned by city; cost to construct \$19,700; ann expenses \$300. Supt. J. J. Murphy.

Ridley Park, Delaware Co., population 1,000; buildings, brick and wood, 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 1,100 ft; value of equipment \$1,500; value of buildings occupied \$1,800; membership 50, volunteers; bell alarm. Chief, F. E. Harrison.

Water Supply—Source from Springfield Water Co.; 21 hydrants; pipe 4 to 8 in dia; pressure 65 to 70 pounds. Supt. W. E. Rowland.

Rochester, Beaver Co., population 3,649; mercantile buildings, brick and wood, 2 stories; private, wood, 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 hose carriages; hose, cotton good 1,100 ft, rubber good 1,350 ft; value of fire department equipment \$2,000. Chairman of fire com. J. T. Conlin.*

Water Supply—Source, Beaver river; system, pump direct and to reservoir, cap 3,000,000 gals; pumping engines, dy cap 9,000,000 gals; 40 hydrants; pipe 30 miles, 16 to 4 in dia; 100 taps; pressure 135 to 35 pounds; works owned by company. Pres. H. W. Hartman; supt. F. M. Rogers.

Roysersford, Montgomery Co., population 3,000; fire area 380 acres; mercantile buildings, brick, 2 to 6 stories; private, brick, 2 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,500 ft, rubber good 200 ft; 2 horses, value \$500; value of fire department equipment \$8,500; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 175, volunteers; bell alarm. Chief, John Ruckel, Jr.

Water Supply—Source, Schuylkill river; system, pumping to standpipe; standpipe cap 188,496 gals; pumping engines, dy cap 1,000,000 gals; 36 hydrants; pipe 18 miles, 4 to 12 in dia; 66 valves; 350 taps; pressure 38 to 90 pounds; waterworks owned by company; cost to construct \$40,000, to date \$88,500. Supt. John M. Shaba.

Saegertown, Crawford Co., population 745; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; slate roofs. Fire department—1 hook and ladder truck; value of fire department equipment \$400; value of buildings occupied \$500; total membership 40, volunteers. Foreman, E. P. David.*

Water Supply—Eureka Mineral Springs Co., has private supply, 2 ponds and pump.*

St. Clair, Schuylkill Co., population 3,675; fire area 1½ sq miles; buildings, brick and wood, 2

and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, 2 hose wagons; hose cotton 600 ft, leather 700 ft, inferior 300 ft; value of fire department equipment \$5,000; value of buildings occupied \$8,000; total membership 150, volunteers. Chief marshal, C. W. Evans.

Water Supply (See Pottsville)—42 hydrants; pipe 4 miles, 3 to 12 in dia; pressure 40 pounds. Town clerk, John A. Erwin.*

St. Mary's, Elk Co., population 2,000. Fire department—1 hand engine, 2 hose carriages; hose, good 1,600 ft. Chief, C. G. Wilson.

Water Supply—Source, Silver creek; system, pump to reservoir; cap 150,000 gals; dy 300,000 gals; pipe 6 miles; hydrants 40; pressure 95 pounds; quality of water good; cost to construct \$25,000. Pres. J. K. P. Hall; town clerk, J. H. Hanhaeuer.

St. Petersburg, Clarion Co., population 655; fire area 100 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, good 1,500 ft; total membership 30, volunteers; bell alarm.*

Water Supply—Source, spring; system, gravity; 3 tanks, cap 117,000 gals; 15 hydrants; pipe 3 miles, 4 in dia; pressure, domestic 75, fire 100 pounds; waterworks owned by borough; cost to construct \$10,000; ann expenses \$250. Supt. Josiah Fillman.*

Sayre, Bradford Co., population estimated 1,500; buildings, brick and wood, 2 and 3 stories. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$2,000; total membership 75, volunteers; whistle alarm.*

Water Supply—Source, Susquehanna river; system, pumping to reservoir; reservoir cap 8,000,000 gals; pumping engines, dy cap 4,500,000 gals; 52 hydrants; pipe 17 miles; 120 valves; 1,150 taps; pressure 80 pounds; waterworks owned by company; cost to construct to date \$145,000; ann expenses \$4,500. Supt. Alex. B. Shearers.

Schuylkill Haven, Schuylkill Co., population 3,100; fire area 3 miles; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, all kinds, hose, cotton good 1,000 ft, leather good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of department \$4,000; total membership 125, volunteers; bell alarm. Chief engineer, William H. Mellon.*

Water Supply—Source, springs; system, gravity and pumping; reservoir cap 7,000,000 gals; pumping engines, dy cap 2,000,000 gals; 28 hydrants; pipe 10 miles, 8 to 4 in dia; 25 valves; 465 taps; pressure 125 pounds; waterworks owned by company; original cost to construct \$75,000; expenses of construction to date \$82,000; ann expenses \$8,000. Supt. Wm. H. Mellon.

Schwenksville, Montgomery Co., population 336; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 and 3 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, cotton good 300 ft; value of fire department equipment \$800; value of buildings occupied \$150; total membership 40, volunteers. Chief engineer, Irwin H. Bardman.

Water Supply—Source, creek, wells and cisterns.

Scottsdale, Westmoreland Co., population 3,700; fire area 150 acres; mercantile buildings, brick, stone and wood, 2 to 4 stories; private, brick and wood, 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines, 2 hose carriages; hose, rubber good 600 ft, inferior 600 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,000; total membership 34, volunteers; bell alarm. Chief engineer, W. N. Porter.

Water Supply—Source, mountain streams; system, gravity; reservoir cap 82,000,000 gals; 43 hydrants; pipe 16 miles, 16 to 4 in dia; 60 valves; 472 taps; pressure, domestic 100 pounds, fire same; works owned by company; cost to construct \$247,000, to date \$254,158; ann expenses \$1,980. Supt. S. F. Potter.

Serantom, Lackawanna Co., population 100,-

000; mercantile buildings, brick and stone, 4 and 5 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—5 steam fire engines, 1 chemical engine, 14 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 9 hose carriages, 6 hose wagons; hose, rubber fair and good 11,000 ft, poor 2,000 ft; 34 horses, value \$3,800; value of fire department equipment \$58,360; value of buildings occupied \$49,577; total expenses of department for past year \$27,470; total membership 560, paid full time 18, paid part time 10, volunteers 534; Gamewell alarm; 72 street boxes. Chief engineer, H. F. Ferber. (Order has been given for additional steamer, chemical engine and hose.)

WATER SUPPLY—Source, streams; system, gravity; 6 reservoirs, cap of four 23,000,000,000 gals; 340 hydrants; pipe 93 miles, 8 to 36 in dia; pressure 40 to 90 pounds; waterworks owned by company. Supt, Robt. Reaves.

Selin's Grove, Snyder Co., population 1,315; mercantile buildings, brick, 3 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; slamese couplings used; hose, linen good 800 ft, leather good 300 ft; value of fire department equipment \$8,050; total ann expenses of department \$425; total membership 90, paid 15, volunteers 75; bell alarm. Chief engineer, John Kessler.

WATER SUPPLY—Source, stream and creek; system, gravity; reservoir; 30 hydrants; pipe 5 miles. Supt, I. Koeben.*

Sewickley, Allegheny Co., population 3,000; fire area 640 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; slamese couplings used; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total membership 35, volunteers. Chief engineer, F. W. Straw.

WATER SUPPLY—Source, springs and driven wells; system, gravity; pumping from river in dry weather; reservoirs cap 4,000,000 gals; pumping engines, dy cap 1,000,000 gals; 35 hydrants; pipe 13 miles, 8 to 8 in dia; pressure 65 pounds; waterworks owned by borough; cost to construct \$100,000; ann expenses \$1,500. Supt, Henry VanCleve.

Shaeferstown, Beaver Co., population 500. No fire department.*

WATER SUPPLY—Source not given; system, gravity; pipe ½ mile.

Shamokin, Northumberland Co., population 16,000; fire area 1 mile sq; mercantile buildings, brick, 3 stories; private, wood, 2½ stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine (not in use), 7 hose carriages; hose, rubber good 2,000 ft, cotton good 500 ft, inferior 700 ft; value of fire department equipment \$7,200; value of buildings occupied \$17,500; total ann expenses of department \$2,000; total membership 250, 12 paid part time; electric alarm; 7 street boxes. Chief engineer, Charles H. Schlager.

WATER SUPPLY—Source, springs and mountain stream; system, gravity; 3 reservoirs, cap 45,000,000 gals; 52 hydrants; pipe 35 miles, 3 to 16 in dia; 90 valves; pressure 80 to 100 pounds; waterworks owned by company; cost to construct \$500,000; ann expenses \$10,000. Pres of com, W. C. McConnell.

Sharon, Mercer Co., population 7,459; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 2 hose wagons; hose, rubber inferior 800 ft, cotton good 1,000 ft; 2 horses, value \$600; value of fire department equipment \$10,000; value of buildings occupied \$10,000; total ann expenses of department \$2,500; total membership 30, paid full time 1, volunteers 29; bell alarm. Chief, C. E. Bundel.

WATER SUPPLY—Source, Shenango river; system, pumping to reservoir; cap 2,000,000 gals, 2 Deane pumping engines, dy cap 2,500,000 gals; 100 hydrants; pipe 13 miles, 2 to 12 in dia; pressure 140 pounds; waterworks owned by company. Supt, E. J. Robinson.

Sharpsburg, Allegheny Co., population bet.

8 and 9,000; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 and 3 stories; wooden roofs are permitted; no fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,000 ft; 2 horses, value \$300; value of equipment \$9,000; value of buildings occupied \$5,000; ann expenses \$1,400; total membership 125, volunteers; Gamewell alarm; 11 street boxes; 2 fire companies. Chief engineer, W. C. Meyer.

WATER SUPPLY—Source, Allegheny river; system, direct pumping; pumping engines, dy cap 3,000,000 gals; 49 hydrants; pipe, 5½ miles, 2 to 14 in dia; 852 taps; pressure, domestic 60, fire 100 pounds; waterworks owned by borough; cost to construct \$49,000, cost to date \$61,000; ann expenses \$4,200. Supt, Robt. Beatty.

Shenandoah, Schuylkill Co., population 16,000; fire area 1,200 acres; mercantile buildings, wood, 2½ stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, good 1,500 ft, leather good 1,400 ft, inferior 100 ft; 4 horses, value \$1,200; value of fire department equipment \$35,500; value of buildings occupied \$17,500; total ann expenses of department \$1,200; total membership 320, paid full time 3, paid part time 9, volunteer members 320; Gamewell alarm; street boxes 9. Chief engineer, Edward J. Barley.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 100,000,000 gals; hydrants 29; pipe 14 miles, 8 to 10 in dia; 48 valves; pressure 75 to 90 pounds; waterworks owned by company; original cost to construct \$200,000; ann expenses \$5,000. Supt, S. D. Hess.

Shickshinny, Luzerne Co., population 1,448; buildings, brick and wood, 3 stories. No fire department; buckets.

WATER SUPPLY—Source, Shickshinny creek; system, gravity; pipe 2½ miles; 12 valves; 125 taps; waterworks owned by company; cost to construct \$12,000; ann expenses \$40. Supt, M. B. Hughes.

Shippensburg, Cumberland Co., population 2,500; mercantile buildings, brick, 3 stories; private, brick, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 4,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$5,000; total ann expenses of department \$100; total membership 75, volunteers; bell alarm. Secy, John A. Fleming.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 700,000 gals; 43 hydrants; pipe 19½ miles; 43 valves; 390 taps; pressure, domestic 60, fire 75 pounds; waterworks owned by borough; original cost to construct \$42,000; ann expenses \$250. Supt, B. F. Landis.

Slatington, Lehigh Co., population 3,500; fire area 1 sq mile; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; slate roofs used principally; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, cotton 1,500 ft, poor 500 ft, leather good 500 ft; 2 horses, value \$500; value of equipment \$5,000; value of buildings occupied \$7,500; expenses for past year \$1,200; membership 90 volunteers; bell alarm. Chief, W. H. Yanser.

WATER SUPPLY—Source, mountain springs; system, gravity; 35 hydrants; pipe 8½ miles, 4 to 8 in dia; 22 valves, 700 taps; pressure, domestic 50, fire 80 to 140 pounds; waterworks owned by borough; cost to construct \$38,000; ann expenses \$25. Pres of com, Dr. L. Campbell.

Smethport, McKean Co., population 1,150; fire area 300 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 800 ft, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total ann expenses of department \$300; total membership 65, volunteers, whistle alarm. Chief engineer, Beth J. Gifford.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 10,000 bbls; 30 hydrants;

pipe 5½ miles, 4 to 6 in dia; pressure 55 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$300. Pres, Henry Hamlin; supt, A. B. Armstrong.

Somerset, Somerset Co., population 1,713; mercantile buildings, brick, 2 and 3 stories; private, wood and brick; 2 stories; wooden roofs permitted; fireworks ordinance. No fire department—1 chemical engine on wheels, 2 chemical extinguishers; value of fire department equipment \$1,000; value of buildings occupied \$1,450.

WATER SUPPLY—Source, wells and cisterns. Burgess, W. H. Weidley. (Contract for waterworks has been given.)

South Bethlehem, Northampton Co., population about 12,000; fire area 640 acres; mercantile buildings, brick and wood, 3 stories; private, brick, 2 1-2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 3,000 ft; value of fire department equipment \$25,000; value of buildings occupied \$14,000; total ann expenses of department \$7,000; total membership 400, paid part time 6, remainder volunteers; electric alarm; 12 street boxes; 4 fire companies. Chief engineer, John Christine.

WATER SUPPLY—Source, Lehigh river; system, pumping to reservoir; reservoirs cap 15,000,000 gals; pumping engines, dy cap 5,000,000 gals; 75 hydrants; pipe 16 miles, 3 to 20 in dia; 175 valves; pressure 80 to 100 pounds; waterworks owned by company; cost to construct \$250,000. Supt, Chas. H. Neisser.

South Chester, Delaware Co., population 7,076. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton 2,500 ft. Chief engineer, Frank Little.*

WATER SUPPLY—Source, river.*

South Easton, Northampton Co., population 7,400; fire area 1½ miles square; buildings, brick and wood, 2 stories; roofs tin and slate; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine (not in use), 3 hose carriages, 1 hose wagon; hose, cotton good 3,000 ft; value of fire department equipment \$4,000; value of buildings occupied \$7,000; total ann expenses of department \$600; total membership 160, paid part time 15; bell alarm. Chairman of fire department, J. F. Andrews.

WATER SUPPLY—Source, mountain spring and pumping canal; system, gravity; reservoir cap 750,000 gals; 28 hydrants; pipe 5½ miles, 4 to 8 in dia; 25 valves; 200 taps; pressure 100 pounds; waterworks owned by company; cost to construct \$43,000; ann expenses \$1,600. Pres, W. F. Pascoe.

South Fork, Cambria Co., population about 1,800; fire area 27 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—hose, cotton good 500 ft, inferior 200 ft. (A volunteer fire company will be organized.)

WATER SUPPLY—Source, Flemer's Run; system, gravity; 12 hydrants; pipe 4 miles, 4 and 3 in; 43 valves; 165 taps; pressure, domestic 85, fire 85 pounds; waterworks owned by company; original cost to construct \$11,500; expenses of construction to date \$11,700; ann expenses \$200. Supt, D. W. Lake.

Spring City, Chester Co., population 2,500; fire area 1½ sq miles; buildings, brick and stone, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, 1 hose wagon, ladders, etc; hose, rubber good 100 ft, cotton good 1,300 ft, inferior 200 ft; value of equipment \$5,000; value of buildings occupied \$5,500; expenses of department for past year \$300; total membership 100; bell alarm. Chief engineer, Edw. Derricks.

WATER SUPPLY—Source, cistern, cap 600 hds and canal; 17 hydrants; 18 valves; 2 meters. Town clerk, L. H. Rosenberger. (Supply from Royseford).*

Steelton, Dauphin Co., population 9,250; fire area 260 acres; mercantile buildings, wood and brick, 3 stories; private, wood, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 2,000 ft; 2 hoses; value of fire department equipment \$5,500; value of buildings occupied \$6,000; total ann expenses of department \$120; total membership 90, volun-

teers; steam whistle alarm. Chief engineer, John F. Boyner.

WATER SUPPLY—Source, Filter bed, Susquehanna river; system, pumping to reservoir and direct; reservoir cap 6,000,000 gals; pumping engines, dy cap 2,500,000 gals; 75 hydrants; pipe 12 miles, 18 to 4 in; 97 valves; pressure, domestic 110, fire 110 pounds; waterworks owned by company; original cost to construct estimated \$120,000. Supt, M. M. Dreibels.

Strasburgh, Lancaster Co., population 918; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hose carriage; hose, rubber good 300 ft. Secy, I. Walker.

WATER SUPPLY—Source, wells and cisterns.

Stroudsburg, Monroe Co., population 2,500; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, 2 hose couplings used; hose, cotton 2,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$3,000; total membership 28, paid. Chief engineer, N. H. Shafer.

WATER SUPPLY—Source, springs; system, gravity; pipe 5 miles, 2 to 6 in dia; 10 valves; pressure 55 pounds; waterworks owned by company; cost to construct \$35,000; ann expenses \$500. Supt, A. N. Snover.

Summit Hill, Carbon Co., population 2,816; buildings, wood, 2 and 3 stories. Fire department not reported.*

WATER SUPPLY—Source, mountain stream; system, pumping to reservoirs, cap 281,220 gals; pumping engines, dy cap 30,000 gals; 18 hydrants; pipe 4 miles; pressure 45 ft head; waterworks owned by company; cost to construct \$13,000; ann expenses \$1,300. Pres and supt, Sam'l Rickert.*

Sunbury, Northumberland Co., population 5,930; fire area 2 sq miles; mercantile buildings, stone and brick, 2 to 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hook and ladder truck, 5 hose carriages, 2 hose couplings used; hose, cotton good 3,000 ft; 6 horses, value \$750; value of fire department equipment \$30,000; value of 3 buildings occupied \$15,000; total ann expenses of department \$1,050; total membership 400, volunteers. Chairman of fire com, Ed. D. Reed.*

WATER SUPPLY—Source, spring and surface water; system, pumping from impounding to distributing reservoir; imp. reservoir cap 700,000 gals; dist. reservoir cap 4,000,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 40 hydrants; pipe 13 miles, 10 to 3 in dia; 30 valves; 25 meters; pressure 55 pounds; waterworks owned by company; cost to construct \$110,000; ann expenses \$3,000. Supt, W. H. Lohrbuck.*

Susquehanna, Susquehanna Co., population 6,000; fire area 6 acres; private, wood, 2 stories; brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—(steam fire engine contemplated) 25 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft, leather 500 ft, cotton good 1,500 ft, linen good 1,000 ft; value of buildings occupied \$2,000; total ann expenses of department \$800; total membership 95, volunteers; electric alarm; 18 boxes. Captain, J. R. McCauley.

WATER SUPPLY—Source, springs; system, gravity; 7 hydrants; pipe 2 miles, 3 to 6 in dia; 9 valves; pressure, domestic 120, fire 120 pounds; waterworks owned by company; original cost to construct \$20,000; ann expenses \$250. Supt, F. Blackburn.

Tacony, Philadelphia Co. (P. O. Philadelphia), population 4,500; buildings, brick and wood, 1 to 3 stories. Protected by Philadelphia fire department.

WATER SUPPLY—Source, Delaware river; system, pump direct and to tank, cap 60,000 gals, dy cap 1,000,000 gals; pumping engines; pipe 6 miles; 48 hydrants; pressure 48 to 150 pounds. Supt, Samuel Bevan.*

Tamaqua, Schuylkill Co., population 6,054; mercantile buildings, stone, 3 stories; private, wood, 2½ stories; wooden roofs permitted. Fire

department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, slamese couplings used; hose, cotton good 2,500 ft; 2 horses; value of fire department equipment \$8,300; value of 2 buildings occupied \$8,000; total ann expenses of department \$250; total membership 165, volunteers; bell alarm. Chief engineer, D. Stawler.*

WATER SUPPLY—Source, springs; system, gravity; 50 hydrants; pipe 10 miles, 4 to 8 in dia; valves; pressure 108 pounds; waterworks owned by borough; cost to construct \$30,000; ann expenses \$1,200. Pres of com, W. Caloway.*

Tarentum, Allegheny Co., population 5,000; fire area 2 sq miles; mercantile buildings, wood, 2 to 4 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft, inferior 330 ft; value of fire department equipment \$1,500; value of buildings occupied \$250; total ann expenses of department \$2,500; total membership 13, volunteer membership 100; bell alarm. Chief engineer, S. B. Smith.

WATER SUPPLY—Source, springs; system, pumping to reservoir, reservoir cap 500,000 gals; pumping engines, dy cap 1,750,000 gals; 54 hydrants; pipe 15 miles, 3 to 12 in dia; 520 taps; quality of water good; pressure, domestic 65, fire same pounds; waterworks owned by company; original cost to construct \$43,000; expenses of construction to date \$85,000; ann expenses \$3,500. Supt, F. N. M. Dowell.

Thurlow, Delaware Co., population 5,000; fire area 1 sq mile; mercantile buildings, brick, wood and plaster, 2 stories; private, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, 1 supply wagon; hose, cotton good 2,500 ft, inferior 200 ft; 3 horses, value \$800; value of fire department equipment \$6,500; value of buildings occupied \$5,000; total ann expenses of department \$2,000; total membership 70, volunteers; bell alarm. Chief engineer, L. Moore.

WATER SUPPLY—Source, water obtained from Chester Waterworks; 60 hydrants; pipe 8 miles.

Tidioute, Warren Co., population 1,328; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 5 hose carriages, slamese couplings used; hose, cotton 400 ft, rubber 550 ft, linen good 1,600 ft; value of fire department equipment \$2,800; value of 3 buildings occupied \$1,400; total membership 60, volunteers; bell alarm. H. H. Cummings.*

WATER SUPPLY—Source, mountain stream; system, gravity; dist. reservoir cap 520,000 gals; 27 hydrants; pipe 9 miles; pressure 65 pounds; waterworks owned by company; cost to construct \$40,000; ann expenses \$750. Supt, T. W. Irvin.

Tioga, Tioga Co., population 557; fire area 300 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; total membership 100, volunteers 25. Chief, M. B. Prutsman.*

WATER SUPPLY—Source, Bentley creek; system, gravity; pumping during drought; imp. reservoir cap 14,000,000 gals, dist. reservoir cap 1,000,000 gals; 14 hydrants; pipe 3 1/2-5 miles, 3 to 6 in dia; pressure 40 to 90 pounds; waterworks owned by company; cost to construct \$20,000; ann expenses \$250. Supt, T. A. Wickham.

Titusville, Crawford Co., population 8,073; fire area 1,400 acres; buildings, brick and wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hook and ladder truck, 6 hose carriages; hose, cotton good 4,200 ft, inferior 500 ft, rubber good 1,000 ft, inferior 450 ft; 5 horses; value of fire department equipment \$11,200; value of 4 buildings occupied \$8,500; total ann expenses of department \$3,750; total membership 31, paid full time 4, paid part time 27; bell and telephone alarm; fire police 20 members, supported by city. Chief engineer, D. Healy.*

WATER SUPPLY—Source, artesian wells; system, direct pumping; pumping engines, dy cap 2,000,000 gals; 71 hydrants; pipe 12 7/8 miles, 2 to 15 in dia; 75 street valves; 30 meters; pressure, domestic 45, fire 90 pounds; waterworks owned

by city; cost to construct \$139,222; ann expenses \$3,030. Supt and secy, G. W. Augler.*

Towanda, Bradford Co., population 4,285; fire area 2 sq miles; mercantile buildings, brick, 3 to 5 stories; private, wood and brick, 2 stories. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, slamese couplings used; hose, cotton good 2,500 ft, inferior 400 ft; value of fire department equipment \$9,300; value of 2 buildings occupied \$15,350; total ann expenses of department \$711.63; total membership 175, volunteers; bell alarm. Chief engineer, Edward Frost.

WATER SUPPLY—Source, springs; system, pumping to reservoir and gravity; reservoir cap 750,000 gals; 61 hydrants; pipe 25 miles, 6 to 12 in dia; pressure 90 to 100 pounds; waterworks owned by company. Supt, treas and secy, J. J. Griffiths.

Tremont, Schuylkill Co., population 2,500; fire area 800 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,000 ft; value of fire department equipment \$8,500; value of buildings occupied \$2,500; total ann expenses of department \$100; total membership 45, volunteers. Chief engineer, J. E. Marks.*

WATER SUPPLY—Source, mountain stream and springs; system, gravity; reservoir cap 1,000,000 gals; 25 hydrants; pipe 3 miles, 6 to 4 in; pressure, domestic 65, fire 75 pounds; waterworks owned by company; cost to construct \$32,000; ann expenses \$200. Supt and secy, J. A. Bechtel.

Troy, Bradford Co., population 1,307; buildings, wood, 2 and 3 stories; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, slamese couplings used; hose, cotton good 1,500 ft, rubber good 600 ft; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total ann expenses of department \$150; total membership 75, volunteers; bell alarm. Chief engineer, H. M. Spalding.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,000,000 gals; 12 hydrants; pipe 5 miles, 4 and 6 in dia; 7 valves; 300 taps; pressure 30 to 90 pounds; waterworks owned by 2 companies; cost to construct \$10,000. Pres, L. Bliss.

Tunkhannock, Wyoming Co., population 2,000; fire area 656 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, 1 jumper; hose, cotton good 1,200 ft, leather good 400 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,500; total ann expenses of department \$275; total membership 60, volunteers; bell alarm. Foreman and pres, Rodney J. Bardwell.

WATER SUPPLY—Source, Sloucom spring, Susquehanna river; system, gravity; reservoir cap 800,000 gals; 37 hydrants; pipe 6 1/2 miles; 402 taps; pressure 60 pounds; waterworks owned by company; cost to construct \$40,000, cost to date \$45,000. Supt, Wm. E. Krifer.

Tyrone, Blair Co., population about 7,500; fire area 800 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 4 hose wagons, fire patrol truck; hose, cotton good 1,350 ft, inferior 150 ft, leather inferior 250 ft, also 1,800 ft hose, owned by private parties; 4 horses, value \$1,000; value of fire department equipment \$9,300; value of buildings occupied \$15,000; total ann expenses of department \$2,500; total membership 300, 2 paid part time; whistle alarm; 3 fire companies. Chief, W. F. Conrad.

WATER SUPPLY—Source, Sink run; system, gravity; reservoir cap 1,000,000 gals; 40 hydrants; pipe 7 miles, 3 to 12 in dia; 23 valves; 600 taps; pressure 40 to 80 pounds; waterworks owned by company; cost to construct \$40,000; ann expenses \$700. Supt, C. H. Dittenbaugh.

Ulysses, Potter Co., population 301; buildings, wood, 3 stories. Fire department—1 hose carriage; hose, linen good 200 ft; value of fire depart-

ment equipment \$860; total membership 25, volunteers; bell alarm. Chief, H. A. Gridley.

WATER SUPPLY—Source, springs; system, gravity, pumping for fire protection; reservoir cap 71,000 gals; pumps, dy cap 40,000 gals; 7 hydrants; pipe 2½ miles, 2 and 3 in dia; pressure 40 to 50 pounds; waterworks owned by company; cost to construct \$7,000; ann expenses very light. Supt, Perry Brigham.

Union City, Erie Co., population 2,300; fire area 1,000 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted except in fire limits; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 1,000 ft; value of buildings occupied \$8,000; total ann expenses of department \$500; total membership 50, volunteer members. Chief engineer, M. Wager.

WATER SUPPLY—Source, springs; system, gravity and pumping direct; pumping engines, cap 750 gals per min; hydrants 43; pipe 5½ miles, 12 to 4 in; taps 225; pressure, domestic 40, fire 160 pounds; waterworks owned by city; original cost to construct \$25,000. Supt, J. E. Gil-
lest.

Uniontown, Fayette Co., population 6,359; fire area 520 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2½ stories; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 7 hose carriages, slamese couplings used; hose, cotton good 1,000 ft, rubber good 1,000 ft, inferior 500 ft; value of fire department equipment \$8,500; value of buildings occupied \$3,500; total ann expenses of department \$750; total membership 50, volunteers; Gamewell alarm. Chief engineer, Frank Stevens.

WATER SUPPLY—Source, mountain springs; system, gravity; 2 reservoirs, cap 85,000,000 gals; 78 hydrants; pipe 28 miles, 4 to 10 in dia; pressure 100 pounds; waterworks owned by company. Supt, G. H. Seaton.

Upland, Delaware Co., population 2,275; fire area 250 acres; mercantile buildings, stone and brick, 3 and 4 stories; private, brick and stone, 2 and 3 stories; wooden roofs permitted. No fire department—1 hand engine, 3,000 ft hose in factories.

WATER SUPPLY—Source (See Chester); pressure 70 pounds.*

Verona, Allegheny Co., population 4,000. Fire department not reported.

WATER SUPPLY—Source, Allegheny river; system, pumping to reservoir; reservoir cap 1,250,000 gals; pipe 8 miles, 12 to 4 in dia; pressure 180 pounds; works owned by company. Pres. John M. Given; supt, G. H. Moore.

Warren, Warren Co., population 4,332; fire area 800 acres; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 stories; wooden roofs not permitted in fire district; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 hose carriages, all kinds, 1 fire police truck; hose, cotton good 2,800 ft, value of fire department equipment \$9,000; value of buildings occupied \$18,000; total ann expenses of department \$1,100; total membership 240; 4 fire companies. Chief engineer, Dr. W. L. Pence.

WATER SUPPLY—Source, Allegheny river and Morrison river; system, gravity and pumping to reservoir; reservoir cap 4,000,000 gals; pumping engines, dy cap 1,500,000 gals; 55 hydrants; pipe 18 miles, 4 to 14 in dia; 55 valves; pressure, domestic 70, fire 130 pounds; waterworks owned by company; cost to construct \$141,000. Supt, Wm. B. Meredith.

Washington, Washington Co., population 8,000; fire area 1,000 acres; mercantile buildings, brick and stone, 3 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 1,900 ft, inferior 500 ft; value of fire department equipment \$10,000; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 100, volunteers; bell alarm. Chief engineer, J. R. R. Streator.*

WATER SUPPLY—Source, creek; system, pumping to reservoir; reservoir cap 4,000,000 gals; pumping engines, dy cap 3,000,000 gals; 45 hydrants; pipe 18 miles, 4 to 10 in; 56 valves; 425 taps; pressure 80 to 130 pounds; waterworks owned by com-

pany; original cost to construct \$250,000; ann expenses \$5,200. Supt, J. MacJones.

Waterford, Erie Co., population 828; buildings, wood and brick, 3 stories; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hose carriage, ladders, buckets, etc.; hose, rubber good 920 ft; value of buildings occupied \$2,500; total membership 40, volunteers; bell alarm. Chief engineer, S. D. Felder.*

WATER SUPPLY—Source, creeks, reservoirs.*

Watsonstown, Northumberland Co., population 2,157; fire area 120 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,100 ft, linen unlined 800 ft, leather 400 ft; value of fire department equipment \$7,500; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 35, paid part time 12, volunteers 23; bell and whistle alarm. Chief engineer, D. F. Wagner.

WATER SUPPLY—Source, White Deer creek; system, pumping to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 2,400,000 gals; 35 hydrants; pipe 7 8-10 miles, 4 to 10 in dia; 9 valves; 210 taps; pressure, domestic 75, fire 75 pounds; waterworks owned by company; cost to construct \$40,000, cost to date \$45,000; ann expenses \$1,800. Supt, F. H. Knight.

Wayne, Delaware Co., population 2,200; fire area 1,000 acres; mercantile buildings, stone and brick, 3 stories; private, stone and wood, 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 100 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 4 hose wagons; hose, cotton good 1,800 ft; 2 hoses; value of fire department equipment \$3,500; value of buildings occupied \$7,000; total membership 300, volunteers; electric and steam whistle alarm; 10 street boxes. Chief engineer, George P. Fallon.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir and direct; reservoir cap 1,500,000 gals; pumping engines, dy cap 1,200,000 gals; 52 hydrants; pipe 22 miles, 2 to 8 in dia; 120 valves; 12 meters; pressure, domestic 20 to 40, fire 20 to 50 pounds; waterworks owned by company; expenses of construction to date \$86,000. Supt, Benj. F. Slaw.

Waynesborough, Franklin Co., population 4,500; fire area 450 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, all kinds; hose, cotton good 1,350 ft; 2 hoses, value \$500; value of fire department equipment \$4,450; value of buildings occupied \$7,000; total ann expenses of department \$700; total membership 80, volunteers; electric bell alarm. Chief engineer, H. C. Lunk.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 1,500,000 gals; 34 hydrants; pipe 9 miles, 4 to 12 in dia; pressure, domestic 70, fire 85 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$500. Pres, Caleb H. Horne; supt and secy Geo. S. Meyer.*

Waynesburgh, Greene Co., population 2,001. Fire department—2 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carts, bucket brigade; hose, 800 ft; total membership volunteers. Chief engineer, W. L. Allison.*

WATER SUPPLY—Source, Ten-Mile Run; system, pumping to reservoir, cap 1,000,000 gals; 2 pumping engines, dy cap 400,000 gals; 30 hydrants; pipe 3½ miles, 4 to 8 in dia; 112 taps; pressure 112 to 125 pounds; waterworks owned by company; cost to construct \$35,000; and expenses \$4,000. Supt and secy, J. F. Randolph.

Weatherly, Carbon Co., population 3,000; fire area 1 sq mile; mercantile buildings, brick and wood, 1, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft (3,000 feet owned by private parties); value of fire

Department equipment \$10,000; value of buildings occupied \$3,500; ann. expenses \$1,800; total membership 60; whistle alarm. Chief engineer, W. B. Lovatt.

WATER SUPPLY—Source, Penrose creek and springs; system, gravity; reservoir cap 250,000 gals; 150 hydrants; pipe 6 miles; valves; pressure 90 pounds; waterworks owned by company; cost to construct \$25,000. Supt. B. F. Clewell.*

Wellaborough, Tioga Co., population 3,000; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—8 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, siamese couplings used; hose, cotton good 2,000 ft, inferior 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$300; total ann. expenses of department \$450; total membership 150, part paid 120; bell alarm. Chief engineer, H. M. Hutchinson.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 70,000,000 gals; 44 hydrants; pipe 16 miles; 29 valves; pressure 85 pounds; waterworks owned by company; cost to construct \$95,000; ann. expenses \$1,200. Supt. W. C. Kress.

West Chester, Chester Co., population 10,000; fire area 800 acres; buildings, brick and wood, 2 to 4 stories; wooden roofs permitted. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 aerial truck, 3 hose carriages; hose, rubber good 3,000 ft, cotton good 2,000 ft; value of equipment \$10,000; value of buildings occupied \$15,000; ann. expenses \$500; total membership 600, volunteers; bell alarm. Chief engineer, M. S. Way.*

WATER SUPPLY—Source, Chester creek; system, pumping to reservoir, reservoir cap 1,100,000 gals; pumping engines, dy cap 1,000,000 gals; 155 hydrants; pipe 13 1-2 miles, 10 to 4 in dia; 92 valves; 1 meter; pressure 25 pounds; waterworks owned by borough; cost to construct \$55,000. Supt. E. A. Mercer.*

West Haven, Luzerne Co., population 1,634; fire area 200 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs not permitted in the vicinity of the R. R.; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 3 hose carriages, all kinds, 2 extension ladders; hose, cotton good 2,500 ft; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total ann. expenses of department \$150; total membership 30, volunteers; steam whistle alarm. Foreman, J. M. Gettel.

WATER SUPPLY—Source, springs; system, gravity; pipe 4 miles, 12 to 2 in dia; 15 valves; quality of water spring; pressure 50 pounds; waterworks owned by company; cost to construct \$20,000; ann. expenses \$400. Supt. H. J. Byers.

West Newton, Westmoreland Co., population 2,285; fire area 1 mile; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 2 hose carriages; hose, linen good 500 ft; value of fire department \$3,000; value of buildings occupied \$2,500; total membership volunteers; steam whistle alarm. Chief engineer, F. V. Jefferies.

WATER SUPPLY—Source, river; system, pumping to reservoir; 5 hydrants; pipe 3,000 ft, 4 and 5 in dia; pressure 150 pounds. Supt. F. V. Jefferies.

Wilkesbarre, Luzerne Co., population 37,718; mercantile buildings, brick, 2 to 6 stories; private, wood, 2 and 3 stories; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 2 hook and ladder trucks, 7 hose carriages, siamese couplings used; hose, linen good 200 ft, cotton good 9,000 ft, inferior 3,000 ft, leather good 200 ft; 15 horses; 8 buildings occupied; total ann. expenses of department \$3,000; total membership 100, paid full time 14, paid part time 86; Gamewell alarm; 38 street boxes. Chief engineer, B. F. Roth.

WATER SUPPLY—Source, Laurel run, mountain streams; system, gravity; reservoir, total cap 2,000,000,000 gals; pumping engines, dy cap 6,000,000 gals; 147 hydrants; pipe 65 1-5 miles, 4 to 30 in dia; 638 valves; 4,700 taps; pressure 60 pounds; waterworks owned by company; cost to construct \$260,000, cost to date \$1,009,000. Supt. Rodger McGarry.

Wilkesburg, Allegheny Co., population

8,000; fire area 1 sq mile; buildings, brick, stone and wood, 1 and 2 1-2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, cotton good 2,000 ft; value of equipment \$8,000; value of buildings \$4,000; membership 100, volunteers; electric alarm; 11 street boxes. Chief, L. M. Eagy.

WATER SUPPLY—Source, Allegheny river; system, pumping to reservoir, cap 7,000,000 gals; pumping engines, dy cap 3,000,000 gals; 57 hydrants; pipe 27 miles, 12 to 1 in dia; 175 valves; 1,807 taps; pressure, domestic 100, fire 140 pounds; works owned by company; cost to construct \$300,000. Supt. W. A. Alexander.

Williamsport, Lycoming Co., population 27,132; fire area 716 acres; mercantile buildings, brick, 3 to 5 stories; private, brick and wood, 2 and 3 stories. Fire department—4 steam fire engines, 1 aerial truck, 5 hose carriages, siamese couplings used; hose, cotton good 5,800 ft, rubber good 1,050 ft; 18 horses; value of fire department equipment \$25,200; value of buildings occupied \$83,530; total ann. expenses of department \$30,000; total membership 48, paid full time 16, paid part time 32; telephone alarm. Chief engineer, J. W. Miles.

WATER SUPPLY—Source, mountain streams; system, gravity, except in dry weather when pump from well, surplus to reservoir; 2 reservoirs one of 20,000,000 and 1 of 6,800,000 gals; pumping engines, dy cap 3,000,000 and 5,000,000 gals; 320 hydrants; pipe 55 miles, 3 to 24 in dia; valves; pressure, domestic 40 to 70, fire 70 pounds; waterworks owned by two companies under one management; cost to construct \$800,000. Pres. James V. Brown; secy and treas. W. H. Bloom.

Williamstown, Dauphin Co., population 2,324; buildings, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. No fire department.*

WATER SUPPLY—Source, not given; system, gravity. Supt. D. Challenger.*

Wormelsdorf, Berks Co., population 1,141; fire area 200 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 and 3 stories; in roofs are used; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 50 chemical extinguishers, 1 hose carriage; value of buildings occupied \$1,000; total ann. expenses of department \$14. Foreman, Henry Grimes.

WATER SUPPLY—Source, creek and cisterns.

Wrightsville, York Co., population 2,200; fire area 15 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 1,200 ft, inferior 100 ft; value of fire department equipment \$4,000; value of buildings occupied \$8,000; total ann. expenses of department \$300; total membership 70; bell alarm. Pres. Abram Charles; secy, Wilton Cook.

WATER SUPPLY—Source, river, pumps.*

Wyalusing, Bradford Co., population 1,700; buildings, wood and brick, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—bucket brigade; total membership 300, volunteers, Burgess, H. J. Lloyd.

WATER SUPPLY—Source, 15 cisterns; force pump. (Works contemplated.)

York, York Co., population 24,000; fire area 5,000 acres; mercantile buildings, brick, 2 to 6 stories; private, brick, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—5 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 4,000 ft, inferior 2,000 ft; 18 horses, value \$4,000; value of fire department equipment \$45,000; value of buildings occupied \$40,000; total ann. expenses of department \$12,000; total membership 450, paid full time 11, paid part time 9, volunteer members 350; Gamewell alarm; 27 street boxes. Chief engineer, Walter B. White.*

WATER SUPPLY—Source, creek and springs; system, pumping to reservoir; reservoir cap 11,000,000 gals; pumping engines, dy cap 2,500,000 gals; 140 hydrants; pipe 27 miles, 2 to 24 in dia; 312 valves; 5,900 taps; lead service pipe; pressure, domestic 10 to 45 pounds, fire same; waterworks

owned by company; expenses of construction to date \$250,000. Supt. Jacob L. Kuehn.

Places having a population of 1,000 and upward that have no fire protection: Ardmore, Montgomery Co., population 2,025; Avoca, Luzerne Co., population 3,031 (are building waterworks); Bellevue, Allegheny Co., population 1,418; Beltsboover, Allegheny Co., population 2,000; Brislin, Clearfield Co., population 1,508; Chartiers, Allegheny Co., population 2,983*; Clayville, Washington Co., population 1,041; Clayton, Berks Co., population 1,000*; Coaldale, Schuylkill Co., population 2,849*; Delano, Schuylkill Co., population 1,362;

Forty Fort, Luzerne Co., population 1,031*; Great Bend, Susquehanna Co., population 1,002*; Hawley, Wayne Co., population 1,988*; Honnertown, population 1,011*; Johnsbury, Somerset Co., population 1,280*; Kendall, Beaver Co., population 1,937*; Latimore, Adams Co., population 1,051*; McDonald, Washington Co., population 1,698 (works contemplated); McRocks, Allegheny Co., population 1,687; McSherrytown, Adams Co., population 1,020*; New Holland, Lancaster Co., population 1,000; Oakmont, population 1,678*; Palo Alto, population 1,424; Saltsburg, Indiana Co., population 1,088*; Sugar Notch, Luzerne Co., population 2,586*; Tower, Schuylkill Co., population 2,053.

RHODE ISLAND.

Arcle, Kent Co., population estimated 3,000; fire area 500 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hook and ladder trucks, 2 hose carriages, all kinds; hose, cotton good 1,500 ft; value of fire department equipment \$1,500; total ann expenses of department \$4,000; total membership 48, volunteers. Chief, W. L. Arnold.*

WATER SUPPLY—Source (see Warwick).*

Block Island, Newport Co., population 1,300; mercantile buildings, wood, 2½ stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 2,000 ft, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,000; total ann expenses of department \$200; membership 50, volunteers; bell alarm. Chief engineer, Henry L. Ross.

WATER SUPPLY—Source, pond; system, gravity; 11 hydrants; pipe 1½ miles; 5 valves; 25 taps; waterworks owned by company; original cost to construct \$12,000; ann expenses \$300. Supt, E. S. Payne.

Bristol, Bristol Co., population 5,478; fire area 2,600 acres; mercantile buildings, wood, 1 to 8 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 4,700 ft; value of fire equipment \$3,800; value of buildings occupied \$4,800; total ann expenses of department \$4,800; total membership 150; steam whistle alarm. Chief engineer, Spencer Rounds.

WATER SUPPLY—Source, Kickimint river; system, pumping to standpipe, cap 329,000 gals; pumping engines, dy cap 1,000,000 gals each; 150 hydrants; pipe 14 miles, 4 to 18 in dia; 1,000 taps; pressure, domestic 60, fire 80 pounds; waterworks owned by company; cost to construct \$250,000; ann expenses \$4,500. Pres, H. K. Norman.

Central Falls, Providence Co., population 14,000; fire area 700 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 supply wagons, 2 hose wagons; hose, rubber good 1,000 ft, inferior 750 ft, cotton good 3,000 ft; 5 horses, value \$1,250; value of fire department equipment \$15,000; value of buildings occupied \$29,500; total ann expenses of department \$8,000; total membership 37, paid full time 5, call men 35; electric alarm; 24 street boxes. Chief, Irving F. Eats.

WATER SUPPLY (See Pawtucket)—87 hydrants; pipe 1½ miles; pressure 100 pounds; waterworks owned by city of Pawtucket.

Coventry, Kent Co., population 6,000; fire area 300 acres; mercantile buildings, wood, 1½ and 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$2,000; total membership 60, volunteers; electric alarm; 10 street boxes. Chief engineer, J. H. Coperell.*

WATER SUPPLY—Source, not stated.*

Cranston, Providence Co., population 8,069. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; 2,500 ft hose; apparatus owned by Cranston Print Works company; total membership 25, volunteers.

WATER SUPPLY—Source (see Providence); 12 hydrants; 3 steam pumps.*

Drownville, Bristol Co., population 750; buildings, wood and brick, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells; system, pumping to reservoir; reservoir cap 52,000 gals; pumping engines, dy cap 50,000 gals; pipe 2 miles, 4 in dia; 12 valves; 60 taps; pressure 35 pounds; waterworks owned by company; cost to construct \$8,000, to date \$10,000. Supt, Chas. F. Anthony.

East Greenwich, Kent Co., population 3,200; fire area 1,440 acres; buildings, brick and wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 3,600 ft, inferior 300 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,800; total ann expenses of department \$800; total membership 80, volunteers; bell alarm. Chief engineer, T. H. Galvin.

WATER SUPPLY—Source, Hunts river; system, pumping to standpipe; standpipe cap 129,500 gals; 2 pumping engines, dy cap 2,000,000 gals; 74 hydrants; pipe 17 miles, 4 to 10 in dia; 75 valves; 60 meters; pressure, domestic 30, fire 200 pounds; waterworks owned by company; cost to construct \$200,000; ann expenses \$4,000. Supt, John L. Congdon.*

East Providence, Providence Co., population 9,000; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, linen good 2,000 ft, inferior 500 ft; total membership 57, volunteers; Gamewell alarm; 9 street boxes. Chief engineer, John J. Mullen.

WATER SUPPLY—Abbott run; system, gravity; 97 hydrants; pipe 12 miles, 12, 8, 6 and 4 in dia; 66 valves; 736 taps; pressure, domestic 70 to 75, fire 85 to 185 pounds; waterworks owned by Watchernoket fire district; original cost to construct \$51,908.36, cost to date \$72,593.52; ann expenses \$2,643. Supt, Orland Freeborn.

Greenville, Providence Co., population 300; fire area 2 sq miles; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; shingle roofs used; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 350 ft, rubber good 350 ft; leather good 300 ft; value of fire department equipment \$850; total membership 60, volunteers; bell alarm. Captain, Chas. F. Allen.*

WATER SUPPLY—Source, wells and cisterns.

Jamestown, Newport Co., population 707; fire area 1 mile; mercantile buildings, wood, 2 and 2½ stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, linen good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$800; total ann expenses of department \$489.94; total membership 38, volunteers; bell alarm. Chief engineer, James W. Orr.

WATER SUPPLY—Source, pond; system, pumping to standpipe; standpipe cap 360,000 gals; 20

hydrants; pipe 2½ miles; waterworks owned by company. Supt. N. Weaver.*

Little Compton, Newport Co., population 1,300; fire area 32,000 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

Narragansett Pier, Washington Co., population 300; mercantile buildings, wood, brick and stone, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,500 ft, inferior 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$400; total ann expenses of department \$3,000; total membership 52, volunteer members; steam gong alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, A. Congdon.

WATER SUPPLY—Source, see Peacedale; hydrants 64.

Natick, Kent Co. Fire department—1 hand engine, 1 hose carriage; hose, fair 1,000 ft; total membership volunteers. James H. Dyer, town clerk.*

Newport, Newport Co., population 20,000; fire area 4 sq miles; mercantile buildings, wood, 2, 2½ and 3 stories; private, wood, 2 and 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—5 steam fire engines, 6 chemical extinguishers, 1 hook and ladder truck in use, 1 in reserve, 6 hose carriages, all kinds, 1 hose wagon, other apparatus, 1 emergency wagon, 2 extinguishers, axes, tools etc.; hose, rubber good 8,000 ft, cotton good 2,000 ft, linen good 4,000 ft; 10 horses, value \$2,500; value of fire department equipment \$51,000; value of buildings occupied \$53,000; total ann expenses of department \$32,000; total membership 127, paid full time 10, paid part time 117; electric and bell alarm; 31 street boxes. Chief engineer, John E. Lake.

WATER SUPPLY—Source, Easton's and Paradise ponds; system, pumping to reservoir; reservoir cap 10,000,000 gals; pumping engines, dy cap 13,000,000 gals; hydrants 238; pipe 52 miles, 36 to 4 in; valves 368; taps 3,500; pressure, domestic 15 to 62, fire 55 pounds; waterworks owned by company; cost to construct \$1,000,000; ann expenses \$30,000. Supt. Wm. S. Slocum.

Olneyville, Providence Co., population 5,425; mercantile buildings, brick and wood, 2 and 2½ stories; private, wood, 1 and 2½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 2 hose wagons; hose, cotton good 2,800 ft, inferior 200 ft; 6 horses; value of fire department equipment \$4,000; value of buildings occupied \$10,000; total membership 125, volunteers 100; Gamewell alarm; street boxes 20; 4 fire companies. Chief engineer, George F. A. Beeme.*

WATER SUPPLY—Source, supply from Providence; 71 hydrants. Town clerk, Wm. F. King.*

Pawtucket, Providence Co., population 27,633; fire area 5,620 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2½ stories; fireworks ordinance. Fire department—3 steam fire engines, 3 chemical engines, 18 chemical extinguishers, 3 hook and ladder trucks, 2 hose carriages, 3 hose couplings used; hose, cotton good 9,050 ft, leather good 400 ft; 17 horses; value of fire department equipment \$67,000; value of 4 buildings occupied \$33,000; total ann expenses of department \$31,000; total membership 84, paid full time 18, paid part time 48; telegraph alarm; 68 street boxes. Chief engineer, John Briery.

WATER SUPPLY—Source, Abbott run stream; system, pumping to reservoir and direct; reservoir cap 20,000,000 gals; pumping engines, dy cap 12,000,000 gals; 867 hydrants; pipe 118½ miles, 4 to 36 in dia; 1,100 valves; 6,386 taps; pressure 65 to 120 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$500,000, to date \$1,674,750; ann expenses \$35,000. Supt. Edwin Darling.

Peacedale, Washington Co., population 1,000; mercantile buildings, stone, 3 and 4 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine,

1 hand engine not in use, 1 hose carriage; hose, rubber good 100 ft, cotton good 350 ft, linen good 350 ft; value of fire department equipment \$2,500; total ann expenses of department \$375; total membership 45, volunteer members; bell and whistle alarm. Foreman, James B. Gould.

WATER SUPPLY—Source, impounding reservoir on Rocky brook; system, pumping to standpipe; reservoirs cap 39,000,000 gals; standpipe cap 250,000 gals; pumping engines, dy cap 3,000,000 gals; 68 hydrants; pipe 14 miles, 12, 8, 6 and 4 in dia; 408 taps; pressure 80 pounds; works owned by company. Pres. D. Clark; manager, W. Kent.

Phenix, Kent Co., population 1,230; fire area 640 acres; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 1½ to 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 1,600 ft; value of fire department equipment \$1,500; value of new buildings occupied \$5,000; total membership 20, volunteers; electric alarm. Chief engineer, F. S. Chase.

WATER SUPPLY—Source, Spring Lake brook; system, gravity; reservoir cap 36,000,000 gals; 139 hydrants; pipe 11 miles, 4 to 16 in dia; 11 valves; 39 meters; pressure 80 pounds; waterworks owned by company; cost to construct \$100,000. Supt. Albert F. Hill.*

Providence, Providence Co., population 150,000; fire area 10,016 acres; mercantile buildings, brick and wood, 4 and 5 stories; private, wood, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—7 steam fire engines, 1 reserve, 3 chemical engines on wheels, 45 chemical extinguishers, 7 hook and ladder trucks, 2 reserve, 4 aerial trucks, 18 four wheeled hose wagons, 2 two wheeled reels, 2 protective wagons, 1-65 ft Champion water tower; hose, rubber good 2,200 ft, linen good 20,750 ft; 83 horses, value \$16,000; value of fire department equipment \$180,000, including alarm; value of buildings occupied \$225,000; total ann expenses of department \$367,395.56; total membership 249, paid full time 214; paid part time 55; Gamewell alarm; 240 street boxes; 26 fire companies, 10 hose companies, 7 engine companies, 7 hook and ladder companies, 1 chemical company, 1 protective Co. Chief engineer, George A. Steers.

WATER SUPPLY—Source, Pawtuxet river; system, pumping to reservoir; 3 storage reservoirs, cap 150,732,000 gals; pumping engines, dy cap 23,000,000 gals; high service pumps, dy cap 10,000,000 gals; 1,576 hydrants; pipe 272,379 miles, 6 to 36 in dia; 12,088 meters; pressure 39 to 73 pounds; works owned by city; cost to construct \$5,943,422.94; ann expenses \$59,427.43. Commissioner public works, Robert E. Smith; secy, Walter F. Slade.

Valley Falls, Providence Co., population 1,531. Fire department—2 steam fire engines, 3 hand engines, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 1,200 ft; 2 horses; total membership 40, volunteers. Chief engineer, John H. Barnwell.*

WATER SUPPLY (see Pawtucket)—22 hydrants. Supt. Edwin Darling; town clerk, P. F. Kinton.

Warren, Bristol Co., population 4,489; fire area 1 x 2 sq miles; buildings, stone, brick and wood, 2 stories; shingle, tin and slate roofs; no fireworks ordinance. Fire department—1 hand engine, 3 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 500 ft, leather good 300 ft, linen good 3,500 ft; value of equipment \$4,100; value of buildings occupied \$5,000; ann expenses \$2,600; total membership 100, paid part time 5, volunteers 95. Chief, Wm. Cole.

WATER SUPPLY—Source, Klokimuet river; system, pumping to reservoir, cap 300,000,000 gals; standpipe cap 30,000; pumping engines, dy cap 1,000,000 gals; 62 hydrants; pipe 20 miles, 8 to 13 in dia; 40 valves; quality of water excellent, filtration gravel; pressure 72 to 75 pounds; waterworks owned by company. Supt. B. B. Martin.

Westerly, Washington Co., population 7,500; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 4 hose carriages; hose, cotton rubber lined good 3,800 ft; value of fire department equipment \$9,000; expenses of department last year \$3,200; total membership 60, volunteers. Chief engineer, R. A. Mason.

WATER SUPPLY—Source, Shunee brook; sys-

tem, pumping to standpipe, cap 372,000 gals; 2 pumping engines, dy cap 1,500,000 gals; 24 hydrants; pipe 14 3-4 miles, 4 to 18 in dia; 78 valves; 634 taps; pressure 40 to 95 pounds; waterworks owned by company; cost to construct \$145,000, Supt, Everett Barns.

Wickford, Washington Co., population 1,000; fire area 1 sq mile; buildings, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft; total membership 80; bell alarm. Chief engineer, G. F. Hunt.

WATER SUPPLY—Source, wells, springs and harbor.*

Woonsocket, Providence Co., population 22,000; fire area 5,632 acres; mercantile buildings, brick and stone, 4 to 6 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 6 chemical extinguishers, 2 hook and ladder trucks, 1 reserve 2 hose carriage, 4 in reserve, 1 hose wagon, 2 supply wagons; hose, cotton good 7,200 ft; 10 horses, value

\$2,100; value of fire department equipment \$44,000; value of buildings occupied \$15,000; total ann expenses of department \$16,600; total membership 87, paid full time 10, paid part time 57; Gamewell alarm; 45 street boxes. Chief, Jay Neill.

WATER SUPPLY—Source, Crooks Fall brook; system, pumping to standpipe; 3 standpipes, cap 2,000,000 gals; pumping engines, dy cap 4,500,000 gals; 465 hydrants; pipe 37.83 miles, 20 to 4 in dia; 408 valves; 1,546 taps; Edison pressure recording gauge; waterworks owned by city; cost to construct \$300,000, to date \$555,519; ann expenses \$10,000. Supt, Byron I. Cook.

Places having a population of 1,000 and upward that have no fire protection: Barrington, Bristol Co., population 1,461; Burrillville, population 5,462*; Foeter, Providence Co., population 1,252; Glocester, population 2,095*; Hopkinton, Washington Co., population 2,864; Middleton, population 1,154; New Shoreham, population 1,330; North Smithfield, population 3,173*; Scituate, Providence Co., population 3,174*; Smithfield, Providence Co., population 2,500; Tiverton, Newport Co., population 2,837*.

SOUTH CAROLINA.

Aikem, Aiken Co., population 2,362; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, siamese couplings used; hose, linen 1,200 ft, rubber 2,000 ft; value of fire department equipment \$6,000; total ann expenses of department \$250; total membership 100, volunteers; triangle alarm. Chief engineer, H. F. Warneke.

WATER SUPPLY—Source, wells and cisterna, cap 95,000 gals and 50 private cisterna. (Works will be built.)

Anderson, Anderson Co., population 5,000; fire area 4 miles dia; buildings, brick and wood, 1 and 2 stories; fireworks ordinance; wooden roofs not permitted in business portion of town. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose reels; hose, rubber good 2,500 ft; 2 hoses, value \$250; total ann expenses of department \$1,448; total membership 104, paid full time 2, volunteers 102; bell alarm. Chief engineer, Geo. M. Tally.

WATER SUPPLY—Source, running streams; system, gravity and pump to standpipe; reservoir cap 3,000,000 gals; standpipe cap 200,000 gals; pumping engines, dy cap 1,000,000 gals; 81 hydrants; 8 1/2 miles pipe, 4 to 10 in dia; 30 valves; quality of water pure; pressure 60 to 70 pounds; works owned by company; cost to construct \$75,000. Supt, J. L. Mauldin; gen'l manager, N. C. Whitner.

Bamberg, Bamwell Co., population 1,949; fire area 13 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose reels; hose, rubber good 600 ft, inferior 550 ft; value of fire department equipment \$750; value of buildings occupied \$500; 68 volunteer members. Chief, H. C. Folk.

WATER SUPPLY—Source, 5 cisterna and artesian wells, owned by city; cost \$3,000 to construct. Town clerk, J. H. Cope.

Beaufort, Beaufort Co., population about 4,000; fire area 120 acres; buildings, brick and wood, 2 stories; wooden roofs not permitted on business street; fireworks ordinance. Fire department—3 steam fire engines, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, combination bucket, hook, ladder and reel, siamese couplings used; hose, linen good 500 ft, rubber good 1,800 ft, inferior 1,500 ft; value of fire department equipment \$7,000; value of buildings occupied \$5,000; total ann expenses of department \$712.25; total membership 100, volunteers, paid full time; bell alarm; 1 fire company, 3 engine companies, 1 hook and ladder company, 1 hose company. Chief, L. B. Stappelen.

WATER SUPPLY—Source, 8 artesian wells, 16 cisterna, water front.

Bennettsville, Marlborough Co., population 1,500; fire area 1,000 ft; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck; value of fire department equipment \$550; value of building occupied \$200; total membership 50, volunteer members; bell alarm.

WATER SUPPLY—Source, wells.

Blackville, Barnwell Co., population 1,250; fire area 15 sq miles; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, buckets, etc.; hose, linen good 200 ft; value of equipment \$1,000; value of buildings occupied \$1,200; alarm, shoot pistols; membership 24, volunteers. Marshal, John Gribblin.

WATER SUPPLY—Source, wells, pumps.

Camden, Kershaw Co., population 3,533; fire area 650 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 400 ft, rubber good 300 ft, linen good 200 ft; total ann expenses of department \$400; total membership 100, volunteers; bell alarm. Chief engineer, John B. Goodale.

WATER SUPPLY—Source, cisterna.

Charleston, Charleston Co., population 62,000; fire area 2,300 acres; mercantile buildings, brick and iron, 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted except in certain localities; fireworks ordinance. Fire department—10 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 7 hose carriages, all kinds, 1 hose wagon; hose, cotton good 10,000 ft, inferior 1,500 ft; 29 horses, value \$200 each; value of fire department equipment \$38,725; value of buildings occupied \$32,500; total ann expenses of department \$49,500; total membership 103, paid full time 54, paid part time 49; telegraph alarm; street boxes 100. Chief engineer, B. G. Marjehoff.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe from reservoir, cap 83,000,000 gals; standpipe cap 150,000 gals; 2 pumping engines, dy cap 6,000,000 gals; 450 hydrants; pipe 30 miles, 4 to 20 in dia; 153 valves; 20 meters; pressure 30 to 40 pounds; waterworks owned by company. Supt, C. A. Chisolm.

Chester, Chester Co., population 2,703. Fire department—1 steam fire engine, 1 hand engine, 2 hook and ladder trucks, 5 hose reels; hose, linen good 1,400 ft, rubber good 500 ft; total membership 130, volunteers. Chief, B. M. Spratt.

WATER SUPPLY—Source, 5 cisterna, cap 92,000 gals. Town clerk, S. B. Latham.

Clifton, Spartanburgh Co., population 2,630; buildings, brick and wood, 2 to 4 stories; wooden roofs not permitted. Fire department—2 hose

carriages; hose, linen good 3,500 ft; total membership 18, paid; bell alarm. Chief, H. D. Wheat.

WATER SUPPLY—Source, Pacolet river; system, pumping to reservoir and direct; reservoir cap, 93,000 gals; pumping engines, dy cap 3,150,000 gals; 16 hydrants; pipe 8 in dia; pressure 75 to 150 pounds; waterworks owned by company; cost to construct \$18,000. Pres of works, D. E. Converse; Supt, F. S. Mosher.

Clinton, Laurens Co., population 1,500; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, brick and stone, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—bucket brigade.

WATER SUPPLY—Source, wells.

Columbia, Richland Co., population 15,353; fire area 1,680 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; tin roofs; fireworks ordinance. Fire department—2 steam fire engines, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 3,500 ft, inferior 500 ft; 6 horses, value \$1,800; value of fire department equipment \$20,000; value of buildings occupied \$10,000; total ann expenses of department \$6,000; total membership 350, volunteers; Gamewell alarm; 17 street boxes; 4 engine companies, 1 hook and ladder company. Chief engineer, Philip Mota.

WATER SUPPLY—Source, Congaree river; system, pumping to reservoir; cap 1,000,000 gals; pumping engines, dy cap 5,000,000 gals; 188 hydrants; pipe 27 miles, 6 to 12 in dia; pressure 40 pounds; waterworks owned by city; ann expenses \$10,000. Supt, J. A. Fetter.

Darlington, Darlington Co., population 4,000; fire area 6 acres; buildings, wood, 1 and 2 stories; wooden roofs not permitted in business section. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 2 hose carriages; hose, cotton good 1,000 ft, rubber inferior 300 ft; value of fire department equipment \$4,000; total ann expenses of department \$300; total membership 30, bell alarm. Pres, Bright Williamson.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 95,000 gals; pumping engines, cap 200 gals per min; 12 hydrants; pipe 7 miles, 4 to 12 in dia; 5 valves; pressure 30 to 100 pounds; waterworks owned by company; cost to construct \$8,000; ann expenses \$500. Supt, J. J. Forman.

Florence, Florence Co., population 3,395; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs and buildings not permitted in business section. Fire department—1 steam fire engine, 2 hand engines, 5 hose carriages; hose, rubber good 2,000 ft, inferior 300 ft; 2 horses; value of fire department equipment \$7,000; total membership 225, paid full time 5, volunteers 220; bell alarm; 3 fire companies. Chief engineer, J. F. Stackley.

WATER SUPPLY—Source, 28 wells for fire purposes. Mayor, J. P. Chase.

Georgetown, Georgetown Co., population 2,982; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 4 hose carriages, slamese couplings used; hose, rubber good 2,000 ft, cotton good 1,000 ft; 2 horses, value \$350; value of fire department equipment \$7,500; value of 4 buildings occupied \$4,500; total ann expenses of department \$1,600; total membership 280, volunteers; bell alarm. Chief engineer, Wm. H. Dorrill.

WATER SUPPLY—Source, river and wells. Mayor, W. D. Morgan; town clerk, J. J. Huoks.

Graniteville, Aiken Co., population 1,791; fire area 100 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages; hose, linen good 2,500 ft; bell alarm.

WATER SUPPLY—Source, creek and canal; system, pumping to reservoir; reservoir cap 180,000 gals; pumping engines, dy cap 18,500 gals; 26 hydrants; pipe 2 miles, 4 to 8 in dia; 20 valves; quality of water good; pressure 83 pounds; works owned by company. Supt, T. H. Rennie.

Greenville, Greenville Co., population 9,899; fire area 3,142 acres; mercantile buildings, brick,

2 to 4 stories; private, wood, 2 stories; tin roofs; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose truck; hose, rubber good 2,500 ft; 2 horses, value \$600; value of fire department equipment \$6,850; expenses for past year \$3,735; total membership 187, paid full time 1; bell alarm. Chief engineer, J. O. Canble.

WATER SUPPLY—Source, mountain stream; system, gravity; cap of reservoir 25,000,000 gals; 130 hydrants; pipe 22 miles, 4 to 12 in dia; 90 valves; pressure average 80 pounds; waterworks owned by company; cost to construct \$150,000. Supt, K. N. Northrup.

Lancaster, Lancaster Co., population 1,200; mercantile buildings, brick, 1 and 2 stories; private, brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck; total membership 20, volunteers; bucket brigade. Captain, J. L. Fong.

WATER SUPPLY—Source, wells and cisterns.

Laurens, Laurens Co., population 2,245; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in business section; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,800 ft; 2 horses, value \$300; value of fire department equipment \$1,300; value of buildings occupied \$8,000; total membership 65, paid full time 1, volunteers 51; bell alarm; fire company, 1 hook and ladder company. Chief, J. J. Pluss.

WATER SUPPLY—Source, 3 cisterns, cap 75,000 gals and never failing creek.

Marion, Marion Co., population 1,640; fire area 20 acres; buildings, wood and brick, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck; value of fire department equipment \$500; value of buildings occupied \$5,000; total ann expenses \$200; total membership 22, paid part time; bell alarm. Chief, Peter Nevels; secy and treas, J. S. Nevels.

WATER SUPPLY—Source, 15 fire wells.

Mayesville, Sumter Co., population 706; buildings, wood, 1 and 2 stories. Fire department—1 hand engine; hose, good 300 ft; bell alarm. Chief, R. V. Griffin.

WATER SUPPLY—Source, wells.

Mount Pleasant, Berkeley Co., population 1,875; fire area 200 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—ladders and buckets; volunteer department.

No Water Supply.

Newberry, Newberry Co., population 3,020; fire area 250 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 800 ft, inferior 400 ft; value of fire department equipment \$8,000; total ann expenses of department \$300; total membership 100, paid full time 3, volunteers 97; bell alarm; 3 fire companies. Chief engineer, J. W. Montgomery; chairman of fire com, Wm. Johnson.

WATER SUPPLY—Source, wells and cisterns. (Waterworks contemplated.)

Orangeburg, Orangeburg Co., population 3,500; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon, slamese couplings used; hose, rubber good 1,100 ft, inferior 500 ft, cotton good 300 ft; 2 horses, value \$300; value of fire department equipment \$5,000; value of buildings occupied \$2,000; total membership 80, volunteers; bell alarm. Chief engineer, Geo. W. Brunson.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe and direct; standpipe cap 30,000 gals; reservoir cap 3,500,000 gals; pumping engines, dy cap 1,150,000 gals; 188 hydrants; pipe 6 miles, 6 in dia; 14 valves; pressure 45 to

95 pounds; waterworks owned by Geo. N. Cornelison; cost to construct \$25,000.

Rock Hill, York Co., population 4,500; fire area $\frac{1}{2}$ mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in business section; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, inferior 500 ft; value of fire department equipment \$6,000; total membership 80, volunteers; bell alarm; 3 fire companies. Chief engineer, J. F. Reid.

WATER SUPPLY—Source, 3 cisterna, cap 52,000 gals.

Spartanburg, Spartanburg Co., population 8,312; fire area radius 2 sq miles; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 6 hose carriages, siamese couplings used; hose, cotton good 3,000 ft, inferior 250 ft; value of fire department equipment \$4,000; total ann expenses of department \$5,000; total membership 142, volunteers; bell alarm. Chief engineer, H. H. Anderson.

WATER SUPPLY—Source, Chincapin creek and Cleveland branch; system, pumping to standpipe; reservoir cap 500,000 gals; standpipe cap 218,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 98 hydrants; pipe 12 miles, 6 to 16 in dia; 50 valves; 350 taps; pressure 48 pounds; works owned by company. Supt, C. W. Harty.

Summerville, Berkeley Co., population 2,500; fire area 1 sq mile; buildings, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels; hose, rubber good 200 ft; 2 horses; value of fire department equipment \$1,000; total ann expenses of department \$100; total membership 25, volunteers. Chief and pres, J. Alwyn Ball.

Sumter, Sumter Co., population 6,000; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 7 hose carriages; hose, rubber good 1,600 ft, poor 300 ft, cotton good 400 ft; 3 horses; value \$600; value of fire department equipment \$6,000; value of buildings occupied \$1,600; ann expenses of department \$5,000; total membership 128, paid part time 128; bell alarm. Chief engineer, H. B. Bloom.

WATER SUPPLY—Source, driven wells. Cook system; system, pumping to standpipe and direct; standpipe cap 320,000 gals; pumping engines, dy cap 1,450,000 gals; 65 hydrants; pipe $8\frac{1}{2}$ miles, 4 to 10 in; 3 meters; 75 taps; pressure, domestic 50, fire 60 pounds; waterworks owned by company; cost to construct \$65,000; ann expenses \$6,000. Supt, H. B. Bloom.

Union, Union Co., population 1,609; fire area 3 square miles; mercantile buildings, brick and stone, 1 story; private, 1 and 2 stories; wooden roofs not permitted. No organized fire department; 1 hand engine; hose, linen good 150 ft, in-

ferior 100 ft; value of fire department equipment \$150. John Q. Buckheit.

WATER SUPPLY—Source, 4 cisterna, cap 150,000 gals.

Walhalla, Oconee Co., population 820; buildings, wood, 1 and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 300 ft; total membership 65, volunteers; 1 hook and ladder company. Chief engineer, Geo. Pratt.

WATER SUPPLY—Source, 7 cisterna, cap 36,400 gals. Supt, T. M. Kelly; town clerk, C. L. Reid.

Walterborough, Colleton Co., population 1,171; fire area 300 acres; buildings, wood, 20 ft; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton rubber lined good 250 ft; value of fire department equipment \$1,000; value of buildings occupied \$300; total membership 80, volunteers; bell alarm; 1 engine company, 1 hook and ladder company. Chief, John F. Lucas.

WATER SUPPLY—Source, artesian wells.

Winnsborough, Fairfield Co., population 1,738; mercantile buildings, wood, 2 stories; private, wood and brick, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, siamese couplings used; hose, rubber good 1,500 ft; value of department equipment \$5,500; 2 buildings owned by town; total ann expenses of department \$600; total membership 150, volunteers; bell alarm. Chief engineer, R. J. McCarty.

WATER SUPPLY—Source, 7 cisterna, cap 140,000 gals; 1 connected with R. R. tank. Mayor, W. G. Jordan.

Yorkville, York Co., population 2,500; fire area 1 mile sq; mercantile buildings, brick and iron, 30 ft high; private, wood, 25 and 35 ft; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 800 ft, inferior 300 ft; total ann expenses of department \$200; total membership 54, paid full time 2, volunteers 52; bell alarm. Chief engineer, T. B. McLean.

WATER SUPPLY—Source, stream; system, pumping from reservoir to standpipe; reservoir cap 70,000 gals; standpipe cap 60,000 gals; pumping engines, dy cap 500,000 gals; 24 hydrants; pipe 8 miles, 4, 6 and 8 in; 10 valves; pressure 120 ft; waterworks owned by city; original cost to construct \$18,000; ann expenses \$800. Supt, W. B. Moore.

Places having a population of 1,000 and upward that have no fire protection: Abbeville, Abbeville Co., population 1,666; Clinton, Laurens Co., population 1,021; Gaffney, Spartanburg Co., population 1,631; Manning, Clarendon Co., population 1,069; Felsner, Anderson Co., population 1,878; (Factory operators organized to protect property.) Piedmont, Anderson Co., population 2,438; (Manufacturing Co. have fire department of their own.)

SOUTH DAKOTA.

Aberdeen, Brown Co., population 3,182; fire area 1,140 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose wagons, 1 combination hose and ladder wagon; hose, cotton good 2,000 ft, inferior 500 ft; 2 horses, value \$450; value of fire department equipment \$4,000; value of buildings occupied \$1,500; total ann expenses of department \$2,000; total membership 22, paid full time 2, paid part time 20; electric alarm. Chief engineer, Jerome J. Musser.

WATER SUPPLY—Source, artesian wells (3); system, gravity; dy cap 1,730,000 gals; 34 hydrants; pipe 5 miles, 4 to 6 in dia; 40 valves; pressure, domestic 125, fire 150 pounds; waterworks owned by city; cost to construct to date \$45,000; ann expenses \$1,000. Supt, Wm. Buck.

Alexandria, Hanson Co., population 1,300; fire area 20 blocks; buildings, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels, 8 chem-

ical extinguishers, 1 hook and ladder truck; value of fire department equipment \$1,200; value of buildings occupied \$2,000; total membership 27, volunteers. Chief, W. J. Hull.

WATER SUPPLY—Source, wells and cisterna.

Andover, Day Co., population 232; mercantile buildings, wood, 1 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, artesian well; system, gravity; 4 hydrants; pipe 3-4 mile; quality of water good; works owned by village; cost to construct \$3,000. Village clerk, Wm. Carpenter.

Ashten, Spink Co., population 700; fire area 160 acres; buildings, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—300 feet good rubber hose. Fire com, S. P. Watkins.

WATER SUPPLY—Source, artesian well; system, gravity; 5 hydrants; $\frac{1}{2}$ mile pipe, 3 in dia; pressure 120 pounds; works owned by city; cost to construct \$2,000; ann expenses \$100. Pres and mayor, S. F. Watkins.

Big Stone City, Grant Co., population 530; fire area 240 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire not investigated. No fire department.

WATER SUPPLY—Source, wells and cisterns.

Blunt, Hughes Co., population 353; fire area 40 acres; buildings, wood, 1 story; wooden roofs permitted; fireworks ordinance.

WATER SUPPLY—Source, wells. Town clerk, J. C. Smith.

Britton, Marshall Co., population 514; fire area 10 acres; mercantile buildings, wood, 1 story; private, wood, 2 stories; shingle roofs are used; fireworks ordinance; causes of fire investigated. Fire department—144 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; total membership 28, volunteers; bell alarm. Chief engineer, F. Hanson.

WATER SUPPLY—Source, artesian well, dy cap 1,000 gals per minute; 3 hydrants; pipe 1-4 mile, 6 in dia; pressure, domestic 120 pounds, fire same; waterworks owned by city; cost to construct \$8,000; ann expenses \$50. Free, J. E. McDougall; city clerk, F. B. Hill.

Brookings, Brookings Co., population 2,000; fire area 10 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; no new wooden roofs permitted; fireworks ordinance. Fire department—1 100 gal chemical engine, 8 chemical extinguishers, 2 hook and ladder trucks, 1 hose carriage; hose, rubber good 900 ft; value of fire department equipment \$7,000; value of buildings occupied \$2,000; total membership 55, volunteers. Chief, W. H. Roddla.

WATER SUPPLY—Source, deep well; system, pumping direct and to reservoir, cap 62,000 gals; pumping engines, dy cap 44,648 gals; 8 hydrants; pipe 9 to 4½ in dia; 5 valves; pressure, domestic 30, fire 80 to 160 pounds; works owned by city; cost to construct \$9,500; ann expenses \$1,140. Supt, E. G. Davis.

Canton, Lincoln Co., population 2,000; fire area 320 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,000 ft, linen good 350 ft; total ann expenses of department \$100; total membership 60, paid full time 1; bell alarm. Chief engineer, J. F. Ferguson.

WATER SUPPLY—Source, wells; system, pump to standpipe, cap 87,000 gals; pumping engines, dy cap 500,000 gals; 36 hydrants; pipe 3½ miles, 4 to 8 in dia; 19 valves; pressure 80 pounds; works owned by city; cost to construct \$22,000. Supt, Geo. Luther.

Castlewood, Hamlin Co., population 400; fire area 5 acres; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted. Fire department—18 chemical extinguishers; value of fire department equipment \$200.

Central City, Lawrence Co., population 519; fire area 150 acres; mercantile buildings, wood, brick and stone, 1 to 3 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton inferior 700 ft, linen good 800 ft; value of fire department equipment \$1,200; value of buildings occupied \$1,500; total membership 33, volunteers; bell alarm. Chief engineer, A. B. Orary.*

WATER SUPPLY—Source, Whitewood creek; system, gravity; cap of reservoir 25,000 gals; 5 hydrants; pipe ½ mile, 6 in dia; pressure 50 to 60 pounds; works owned by company; cost to construct \$5,000. Supt, T. J. Grier.

Chamberlain, Brule Co., population 1,000; buildings, brick and wood, 1 and 2 stories; and 1 3-story brick hotel; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, linen inferior 500 ft; value of fire department equipment \$5,000; value of buildings occupied \$600; total expenses for past year \$600; total membership 22; bell alarm. Chief engineer, W. F. Shuts.

WATER SUPPLY—Source, Missouri river; system, pumping direct; 60 hydrants; pipe 3 miles, 5 to 1 in; pressure 100 pounds; waterworks owned by city; cost to construct \$15,000; ann expenses \$600. Supt, C. H. Young.

Clark, Clark Co., population 600; fire area 180 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels, 9 chemical extinguishers, 1 hook and ladder truck, 120 pails; hose, rubber good 300 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,800; total ann expenses of department \$150; total membership 70, volunteers; bell alarm; 1 engine company, 1 hook and ladder company. Chief engineer, Carl Jackson.

WATER SUPPLY—Source, artesian wells.

Columbia, Brown Co., population 400; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, artesian well, 1,000 ft deep; 4 hydrants; pipe 1,000 ft, 6 in dia; pressure 180 pounds. Mayor, C. E. Corry.

Deadwood, Lawrence Co., population 5,400; fire area 350 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 8 hose carriages; hose, rubber good 750 ft, cotton good 1,000 ft, cotton good 2,000 ft, inferior 400 ft; value of fire department equipment \$6,000; value of buildings occupied \$12,000; total ann expenses of department \$600; total membership 150, volunteers; bell and whistle alarm; 6 fire companies. Chief engineer, N. E. Franklin.

WATER SUPPLY—Source, Whitewood creek; system, gravity; reservoir cap 250,000 gals; 36 hydrants; pipe 8 miles, 2 to 6 in dia; 200 taps; pressure, domestic 60 to 100 pounds, fire same; waterworks owned by company; original cost to construct \$65,000; expenses of construction to date \$95,000. Agt, T. J. Grier; lessee, J. M. Brelsford.

Faulkton, Faulk Co., population 632; fire area 160 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage, 1 hose wagon; hose, rubber good 2,100 ft, inferior 600; value of fire department equipment \$1,200; value of buildings occupied \$600; total ann expenses of department \$1,100; membership 42, volunteers; bell alarm. Chief engineer, Fremont Young.

WATER SUPPLY—Source, wells and cisterns.*

Flandreau, Moody Co., population 1,000; fire area 460 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 20 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$250; total membership 50, volunteers; bell alarm. Chief engineer, E. G. Pettigrew.

WATER SUPPLY—Source, river and wells.*

Huron, Beadle Co., population 3,500; fire area 640 acres; buildings, stone, concrete and wood, 1 to 4 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton 800 ft, rubber inferior 2,000 ft; value of fire department equipment \$5,600; value of buildings occupied \$800; total ann expenses of department \$2,000; total membership 65, volunteers; bell alarm. Chief engineer, F. H. Holton.

WATER SUPPLY—Source, artesian wells; system, gravity and direct pumping; pumping engines, dy cap 1,000,000 gals; 28 hydrants; pipe 5 miles, 4 to 8 in dia; 45 valves, 300 taps; pressure, domestic 80, fire 120 pounds; waterworks owned by Huron Waterworks Company; cost to construct \$28,500; ann expenses \$3,000. Secy and genl mgr, Fred. M. Wilcox.

Lead City, Lawrence Co., population 4,500; fire area 3-4 mile square; mercantile buildings, brick and stone, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose rubber good 200 ft, inferior 500 ft, cotton good 2,000 ft, inferior 500 ft; value of fire department equip-

ment \$5,000; value of buildings occupied \$8,000; total ann expenses of department \$800; total membership 75, volunteer members; electric alarm. Chief engineer, T. J. Sparks.

Madison, Lake Co., population 2,500; buildings, wood, stone and brick; wooden roofs permitted; causes of fire investigated. Fire department—2 chemical engines on wheels, 1 water tank on wagon 400 gals cap, 4 chemical extinguishers, 1 hook and ladder truck; hose, rubber good 300, inferior 200 ft; value of buildings occupied \$2,500; total membership 75, volunteers; bell alarm. Chief engineer, J. W. Davidson.

WATER SUPPLY—Source, wells. Contract has been given for \$30,000 waterworks.

Millbank, Grant Co., population 1,200; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,500 ft; value of fire department equipment \$2,000; value of buildings occupied \$800; total membership 40, volunteers; electric alarm. Chief engineer, Ed. F. Dave.

WATER SUPPLY—Source, not reported.

Miller, Hand Co., population 556; fire area 180 acres; mercantile buildings, wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 400 ft, rubber good 450 ft, inferior 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 40, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief, Geo. Benson.

WATER SUPPLY—Source, artesian wells; system, gravity; dy cap 1,440,000 gals; 17 hydrants; pipe 4½ miles, 2 to 8 in dia; pressure 125 pounds. Mayor, W. W. Kimmons.*

Mitchell, Davidson Co., population 3,000; fire area 980 acres; mercantile buildings, brick and stone, 2 stories; private, wood and brick, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carts, hand grenades; hose, rubber and cotton good 1,500 ft, inferior 100 ft; value of fire department equipment \$4,500; value of buildings occupied \$3,000; total ann expenses of department \$1,000; total membership 32, paid part time 1, volunteers 31; electric alarm; 5 street boxes; 1 hook and ladder company, 2 hose companies. Chief engineer, Geo. H. Brooks.

WATER SUPPLY—Source, 2 artesian wells; system, pumping to reservoir and direct; reservoir cap 800,000 gals; 37 hydrants; pipe 8 miles; pressure, domestic 40 to 60, fire 100 to 150 pounds; waterworks owned by town; cost to construct \$68,000. Pres, J. E. Gilbert.

Pierre, Hughes Co., population 3,235; buildings, wood and brick, 1 to 3 stories. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,100 ft, rubber 200 ft; value of fire department equipment \$4,000; total ann expenses of department \$5,000; total membership 83, volunteers; bell alarm. Chief engineer, H. M. Cutting.

WATER SUPPLY—Source, Missouri river; system, pumping to reservoir and direct, cap 750,000 gals; pumping engines, dy cap 1,000,000 gals; 87 hydrants; pipe 10 miles, 12 to 4 in dia; 22 valves; 120 meters; 250 taps; pressure 90 to 110 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$4,000. Pres, F. Bixby; supt, C. J. Humason.

Plankinton, Aurora Co., population 700; mercantile buildings, wood, 3 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of equipment \$1,000; value of buildings occupied \$600; total membership 25; bell alarm. Chief engineer, T. W. Taubman.

WATER SUPPLY—Source, artesian wells; system, gravity; 16 hydrants; pipe 2½ miles, 6 in dia; 3 valves; pressure 140 pounds; works owned by city; cost to construct \$8,000; ann expenses \$200. Supt, Chas. Griswold.*

Rapid City, Pennington Co., population 3,200; fire area 700 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, stone and

wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,500 ft, inferior 500 ft, linen good 1,500 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$1,000; total membership 90, volunteer members; bell alarm. Chief engineer, John E. Brennan.

WATER SUPPLY—Source, spring, 3 miles from town; system, gravity; reservoir cap 750,000 gals; hydrants 25; pipe 9½ miles, 4 to 10 in; taps 285; valves 26; pressure, domestic 70, fire 90 pounds; waterworks owned by city; original cost to construct \$61,000; expenses of construction to date \$21,000; ann expenses \$1,200. Supt, Hugh J. McMahon.

Medfield, Spink Co., population 796; buildings, wood and brick, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total membership 55, volunteers; bell alarm. Chief, D. N. Hunt.*

WATER SUPPLY—Source, artesian wells; system, gravity; 4 hydrants; pipe in principal streets; pressure 160 pounds; waterworks owned by town; cost to construct \$5,000; ann expenses \$200. Supt, C. T. Crandall.*

Salem, McCook Co., population 1,000; mercantile buildings, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 700 ft, rubber good 300 ft; value of fire department equipment \$2,500; value of buildings occupied \$900; ann expenses \$150; total membership 26, volunteers; whistle alarm. Chief engineer, F. W. Scanlan.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir, reservoir cap 60,000 gals; pumping engines, dy cap 750,000 gals; hydrants 8; pipe 1½ miles, 6 to 4 in dia; 7 valves; 29 taps; pressure, domestic 20, fire 125 pounds; waterworks owned by city; original cost to construct \$12,000; expenses of construction to date \$12,700; ann expenses \$771. Supt, M. A. Blackburn.

Scotland, Bon Homme Co., population 1,500; buildings, brick and wood, 1 and 2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft, inferior 500 ft; value of equipment \$1,500. Chief engineer, W. B. Robinson.

WATER SUPPLY—Source, well; system, pumping to standpipe; reservoir cap 57,600 gals; pumping engines, dy cap 21,600 gals; hydrants 12; pipe 2 miles, 6 in; 4 valves; pressure, domestic 35, fire 85 pounds; waterworks owned by city; cost to construct \$15,000, cost to date \$30,000; ann expenses \$150. Supt, Thomas Irwin.

Sioux Falls, Minnehaha Co., population 16,300; fire area 5,760 acres; mercantile buildings, stone and brick, 4 to 7 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 double tank chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, all kinds, 1 hose wagon, 1 emergency cart, 1 deluge set, hooks, life lines etc; hose, rubber inferior 500 ft, cotton good 4,950 ft, inferior 1,700 ft; 4 horses, hired; value of fire department equipment \$19,700; value of buildings occupied \$2,700; total ann expenses of department \$6,500; total membership 205, paid full time 2, paid part time 2, call men 90; Gamewell alarm; street boxes 14. Chief engineer, J. Carleton.

WATER SUPPLY—Source, drive wells, 3 miles N. of city; system, pumping direct; pumping engines, dy cap 6,000,000 gals; hydrants 104; pipe 26 miles, 4 to 16 in; valves 78; pressure, domestic 65, fire 125 pounds; waterworks owned by company; cost to construct \$105,000. Supt, R. W. Barnes.

Spearfish, Lawrence Co., population 1,500 fire area 40 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,400 ft, inferior 100 ft, rubber fair 500 ft;

value of fire department equipment \$2,200; value of buildings occupied \$2,500; total ann expenses of department \$187; total membership 98, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief, John Bell.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 85,000 gals; 21 hydrants; pipe 54 miles, 4 to 8 in dia; 15 valves; 87 taps; pressure, domestic 65 to 70, fire 75 to 100 pounds; water-works owned by city; cost to construct \$23,550, cost to date \$26,550; ann expenses \$250. Supt, M. Berg.

Sturgis, Meade Co., population 1,500; fire area 300 acres; buildings, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 750 ft, inferior 250 ft, cotton good 1,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$120,000; expenses for past year \$800; total membership 85, volunteers; bell alarm; 3 fire companies, 1 hose company, 1 hook and ladder company, 1 engine company. Chief engineer, Henry Wyttenbach.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoirs, cap 4,000,000 gals; hydrants 30; pipe 7½ miles, 10 to 4 in; 23 valves; 70 taps; pressure, domestic 80, fire 150 pounds; water-works owned by company; cost to construct \$75,000; ann expenses \$800. Pres of com, J. J. Davenport.

Tyndall, Bon Homme Co., population 800; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—11 chemical extinguishers, 2 ladders, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,000; total membership 35, volunteers; bell alarm. Chief engineer, J. P. Berr.*

WATER SUPPLY—Source, artesian wells; pipe 6 miles; hydrants 27; pressure 36 pounds. Town clerk, J. Williams.*

Vermillion, Clay Co., population 2,000; fire area 30 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 750 ft, inferior 50 ft; total membership 50; whistle alarm. Chief engineer, Geo. Kempker.

WATER SUPPLY—Source, artesian wells; system, pumping to tank; tank cap 90,560 gals; standpipe cap 54,272 gals; pumping engines, dy cap 1,000,000 gals; 66 hydrants; pipe 6 miles, 8, 6 and 4 in; 100 taps; pressure, domestic 45, fire 100 pounds; water-works owned by company; original cost to construct \$32,500. Supt, T. S. Stanley.

Watertown, Codington Co., population 3,500; fire area 3,000 acres; mercantile buildings, brick, stone and grout, 1 to 4 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—5 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, rubber good

2,000 ft, inferior 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$30,000; total membership 50, paid part time 40, volunteers 10; bell alarm; 5 fire companies. Chief, Wm. Luck.

WATER SUPPLY—Source, Lake Kampeska; system, pumping to standpipe; standpipe cap 211,000 gals; 2 pumping engines, dy cap 2,000,000 gals; 88 hydrants; pipe 9½ miles, 4 to 12 in dia; 96 valves; 18 meters; 188 taps; pressure, domestic 60 to 65, fire 125 pounds; waterworks owned by company; cost to construct \$100,000; Edison pressure recording gauge; ann expenses \$3,000. Supt, L. D. Lyon.

Webster, Day Co., population 1,200; fire area 4 blocks; buildings, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells and cisterns.

Whitewood, Lawrence Co., population 143; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 700 ft; membership 20; bell alarm. Chief, J. A. Hennen.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 100,000 gals; 9 hydrants; pipe 1½ miles, 6 in dia; 8 valves; 52 taps; pressure 54 pounds; works owned by company; cost to construct to date \$14,000. Pres, H. T. Cooper.

Woonsocket, Sanborn Co., population 687; fire area 320 acres; mercantile buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 2 hose carts and 1,000 ft hose rubber; value of equipment \$2,500; value of buildings occupied \$1,200; total expenses for past year \$450; membership 20; bell alarm. Chief engineer, Milo White.

WATER SUPPLY—Source, artesian wells; system, direct pressure from well, dy cap 4,000,000 gals; 28 hydrants; pipe 2½ miles, 3, 4 and 6 in dia; 9 valves; 100 taps; pressure, domestic 80, fire 130 to 153 pounds; works owned by city; cost to construct \$8,000, cost to date \$10,000; ann expenses \$300. Supt, F. Easland.

Yankton, Yankton Co., population 5,000; fire area 400 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hook and ladder trucks, 1 aerial truck, 4 hose carriages, 1 hose wagon; hose, cotton good 4,000 ft; value of fire department equipment \$4,500; value of buildings occupied \$10,000; total ann expenses of department \$700; total membership 62, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, Elmer Johnson.

WATER SUPPLY—(new works) Source, artesian well; system, gravity; 2 tanks cap 64,000 bbls; 46 hydrants; pipe 8 miles, 4 to 10 in dia; 59 valves; 800 taps; pressure 40 pounds; waterworks owned by city; cost to construct \$21,000; ann expenses \$800. Supt, Anton Veling.

TENNESSEE.

Athens, McMinn Co., population 2,220; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.*

WATER SUPPLY—Source, Ingleside spring; system, pump to standpipe, cap 50,000 gals; dy cap 500,000 gals; pipe 4 miles. Manager, R. J. Fisher.*

Belliver, Hardeman Co., population 1,500; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted. No fire department.

No Water Supply.

Bristol, Sullivan Co., population 3,324; fire area 75 to 100 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roof not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$3,000; total membership 20, volunteers. Chief, Geo. W. Kuhner.

WATER SUPPLY—Source, spring; system, pumping to tank, tank cap 100,000 gals; pumping engines, dy cap 1,200,000 gals; 33 hydrants; pipe 9

miles, 4 to 12 in dia; 6 meters; pressure, domestic 65; waterworks owned by company; cost to construct \$50,000; ann expenses \$3,000. Supt, A. C. Harkleroad.*

Chattanooga, Hamilton Co., population 29,100; fire area 10 sq miles; mercantile buildings, brick and stone, 2 to 6 stories; private, wood, 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, all kinds, 2 hose wagons; hose, cotton good 5,500 ft, rubber good 4,500 ft; 25 horses, value \$12,500; value of fire department equipment \$42,000; value of buildings occupied \$40,000; total ann expenses of department \$53,000; total membership 61, paid full time; Gamewell alarm; 38 street boxes; 9 fire companies, 4 engine companies, 1 chemical company, 2 hook and ladder companies, 2 hose companies. Chief engineer, Charles Whiteside.*

WATER SUPPLY—Source, Tennessee river; system, direct pumping, with equalizing reservoir, cap 5,000,000 gals; standpipe cap 175,000 gals;

pumping engines, dy cap 20,000,000 gals; 232 hydrants; pipe 98 miles, 4 to 24 in dia; 580 valves; 1,050 meters; pressure 60 to 70 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct \$1,130,000; ann expenses \$90,000. Supt, Nisbet Wingfield.*

Clarksville, Montgomery Co., population 7,924; fire area 87 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 18 ft, inferior 200 ft; 2 horses, value \$300; value of fire department equipment \$7,750; value of buildings occupied \$5,000; rent \$240; total ann expenses of department \$600; total membership 60, paid 1; bell alarm. Chief engineer, J. C. Mattill; chairman of fire com, W. B. Young.*

WATER SUPPLY—Source, Cumberland river; system, pumping to standpipe, cap 132,500 gals; pumping engines, dy cap 1,750,000 gals; 81 hydrants; pipe 12 miles, 3 to 8 in dia; 55 valves; 441 taps; pressure 55 pounds; Edison pressure recording gauge; waterworks owned by city. Supt, R. E. McCulloch.

Columbia, Maury Co., population 5,370; mercantile buildings, brick, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 4 hose carriages, sismese couplings used; hose, rubber good 1,700 ft; 5 horses; value of fire department equipment \$8,500; total ann expenses of department \$4,000; total membership 20, part paid; telephone alarm. Chief engineer, J. Latta.*

WATER SUPPLY—Source, Duck river; system, pumping to reservoir; reservoir cap 700,000 gals; pumping engines, dy cap 2,000,000 gals; 71 hydrants; pipe 13 miles, 4, 6 and 8 in; 18 valves; 16 meters; pressure 95 pounds; waterworks owned by company; ann expenses \$3,800. Supt, W. T. Naff.

Dayton, Rhea Co., population 3,000; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hose carriage; value of fire department equipment \$900; total membership 30, volunteers; steam whistle alarm. Chief engineer, J. A. Loyd.

WATER SUPPLY—Private creeks and wells. Town clerk, I. W. Holt.

Dyersburgh, Dyer Co., population 3,500; fire area 50 acres; mercantile buildings, brick and stone, 3 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose cart; hose, rubber good 750 ft, inferior 50 ft, cotton good 750 ft; value of fire department equipment \$800; value of buildings occupied \$500. Chairman, F. H. Shepard.*

WATER SUPPLY—Source, river; system, pumping to tank, cap 75,000 gals; pumping engines, dy cap 200,000 gals; 14 hydrants; pipe 3 miles, 4 in dia; 1 meter; pressure, domestic 15, fire 100 pounds; works owned by F. H. Shepard, Jr.; cost to construct \$12,000.

Fayetteville, Lincoln Co., population 2,800; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—3 chemical engines on wheels; value of equipment \$1,000; hose, rubber good 300 ft; total membership 25, volunteers; bell alarm. Chief, C. L. Woddlie.*

WATER SUPPLY—Source, wells and cisterns.

Franklin, Williamson Co., population 2,300; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire district; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 800 ft, poor 200 ft; value of fire department equipment \$1,500. Chairman of fire com, W. S. Lunn.

WATER SUPPLY—Source, cisterns and wells.

Gallatin, Sumner Co., population 2,078; fire area 450 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 and 3 stories; fireworks ordinance. Fire department—2 chemical engines on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, water brigade; hose, rubber good 600 ft; value of fire department equipment \$600; value of buildings occupied \$2,500; total membership 80, volunteers. Chief engineer, W. H. Brown.*

WATER SUPPLY—Source, wells; ann expenses \$450.

Harriman, Roane Co., population 3,000; fire area 100 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—3 chemical engines on wheels, 1 hook and ladder truck, 50 buckets, 1 hose wagon with 1,000 ft hose being purchased; hose, rubber good 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,500; total membership 105, volunteers. Chief engineer, H. W. Veasey.

WATER SUPPLY—Source, Emery river; system, pumping to tank; pumping engines, dy cap 100,000 gals; 10 hydrants; pipe 3½ miles, 3 to 1 in dia; works owned by city. System to be in operation June 1st as follows: 2 pumps, dy cap 750,000 gals; 45 hydrants; pipe 8 miles, 4 to 10 in; pressure, domestic 110 pounds, fire 150 pounds; cost \$41,000. Supt, Thomas Brown.

Humboldt, Gibson Co., population 3,000; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; metal roofs. Fire department—1 chemical engine on wheels; hose, cotton good 500 ft; value of fire department equipment \$750; 15 volunteer members. Chief engineer, J. R. Janell.

WATER SUPPLY—Source, wells and 4 cisterns, cap 250 bbls each. Mayor, Jno. T. Crews.

Jackson, Madison Co., population 10,039; fire area 100 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1½ and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, 1 hose wagon; hose, cotton good 4,000 ft, inferior 1,000 ft; value of fire department equipment \$9,000; value of buildings occupied \$5,000; ann expenses \$3,700; total membership 148, paid full time 3, paid part time 12, volunteers 133; telephone alarm; 5 fire companies. Chief engineer, T. C. Gaston.

WATER SUPPLY—Source, 19 bored wells; system, direct pumping; reservoir cap 2,000,000 gals; 2 pumping engines, dy cap 1,000,000 gals; 179 hydrants; pipe 17 3/4 miles, 3 to 16 in dia; 148 valves; 1,104 taps; pressure, domestic 70, fire 100 pounds; waterworks owned by city; cost to construct \$100,000, cost to date \$135,000; ann expenses \$3,200. Supt and secy, Samuel C. Lancaster.

Johnson City, Washington Co., population 5,000; mercantile buildings, brick and lime stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carts; hose, cotton good 450 ft, rubber good 700 ft; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 60, volunteers; bell alarm. Chief engineer, H. D. Gump.

WATER SUPPLY—Source, creek; system, gravity; reservoir cap 1,000,000 gals; 51 hydrants; pipe 10 miles, 3 to 14 in dia; 57 valves; 2 meters; 278 taps; pressure 67½ pounds; works owned by company. Supt, Frank Evans; county clerk, J. E. Hawkins.

Jonesboro, Washington Co., population 1,000; fire area 1 by ½ mile; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 500 ft; 2 horses; value of fire department equipment \$400; membership 40, volunteers; bell alarm. Chief engineer, W. S. Hickey.

WATER SUPPLY—Source, stream, wells and cisterns.

Knoxville, Knox Co., population 40,000; mercantile buildings, brick, 2 to 5 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—3 steam fire engines, 4 chemical extinguishers, 1 aerial truck, 2 hose carriages, all kinds, 1 hose wagon, other apparatus, 1 hook and ladder truck, 3 hose reels out of service; hose, rubber good 1,900 ft, cotton good 2,900 ft; 11 horses, value \$1,370; value of fire department equipment \$11,000; value of buildings occupied \$5,000; total ann expenses of department \$18,216; total membership 25, paid full time; Gaynor electric alarm; 43 street boxes. Chief engineer, W. W. Dunn.

WATER SUPPLY—Source, Tennessee river; sys-

tem, pumping to 2 reservoirs and direct; reservoir cap 3,000,000 gals; pumping engines, dy cap 3,000,000 gals; 153 hydrants; pipe 21 miles, 4 to 18 in dia; valves; 150 meters; pressure 23 to 82 pounds; waterworks owned by company; cost to construct \$200,000. Supt, Jas. Adams.

Lebanon, Wilson Co., population 1,883; fire area 10 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 500 ft; value of building occupied \$1,000; total ann. expenses of department \$300; total membership 26, volunteers, paid full time 1; bell alarm. Chief engineer, G. D. Burney.*

Water Supply—Source, spring; system, pumping to standpipe; standpipe cap 75,000 gals; pumping engines, dy cap 50,000 gals; 18 hydrants; pipe 3.4 mile, 2 to 6 in, 2 valves; pressure, domestic 40, fire 80 pounds; waterworks owned by city; ann expenses \$1,200. Supt, J. J. Hatcher.

Marysville, Blount Co., population 1,686; buildings, wood, 2 stories. Fire department—1 poor hand engine, 1 hook and ladder truck; value of fire department equipment \$50; total membership 25, volunteers; bell alarm. Secy, Allen Garner.

Water Supply—Source, cisterns and creek.

Memphis, Shelby Co., population 93,000; fire area 3,200 acres; mercantile buildings, brick, stone and iron, 4 and 5 stories; private, brick, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—8 steam fire engines, 3 reserve, 2 chemical engines on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 in reserve, 1 aerial truck, 5 four wheeled hose carriages, 2 in reserve, siamese couplings used; hose, rubber and cotton good 6,400 ft; 24 horses, value \$5,800; value of fire department equipment \$83,000; value of buildings occupied \$160,000; total ann expenses of department \$67,466; membership 61, full paid; telegraph alarm; 60 street boxes. Chief, James Burke.

Water Supply—Source, artesian wells; system, pumping to standpipe and direct; standpipe cap 375,000 gals; 3 pumping engines, dy cap 30,000,000 gals; 400 hydrants; pipe 69 miles, 4 to 36 in dia; 600 valves; 300 meters; 6,500 taps; pressure 50 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct \$1,750,000; ann expenses \$85,000. Supt, A. A. Tucker.

Morristown, Hamblen Co., population 3,500; mercantile buildings, brick and iron, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 425 ft, rubber good 125 ft; value of fire department equipment \$1,000; value of buildings occupied \$150; total membership 25, volunteers. Chief, A. H. Legg.

Water Supply—Source, wells. (\$40,000 bonds have been issued for waterworks system.)

Murfreesboro, Rutherford Co., population 3,739; fire area 700 acres; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,500 ft, inferior 1,000 ft; value of fire department equipment \$37,000; total membership 27; bell alarm. Chief engineer, O. S. Miller.

Water Supply—Source, springs; system, pumping direct; reservoir cap including spring 1,000,000 gals; pumping engines, dy cap 2,000,000 gals each; 40 hydrants; pipe 8 miles, 6, 4, 2 in dia; 25 valves; 1 meter; pressure, domestic 30 to 50, fire 125 pounds; works owned by company; cost to construct \$36,000; ann expenses \$1,200. Supt, J. E. Thompson.

Nashville, Davidson Co., population 87,754; fire area 7,138 acres; mercantile buildings, brick and stone, 4 to 7 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—6 steam fire engines, 3 chemical engines on wheels, 4 chemical extinguishers, 3 hook and ladder trucks (2 in reserve), 1 aerial truck, 10 hose carriages, all kinds, 1 hose wagon; hose, rubber good 10,000 ft, inferior 2,500 ft; 43 horses, value \$7,525; value of fire depart-

ment equipment \$193,000; value of buildings occupied and lots \$97,400; total ann expenses of department \$78,706; total membership 72, paid full time; Gamewell alarm; 87 street boxes. Chief engineer, E. M. Carell. (One additional steamer, additional men and alarm boxes contemplated.)

Water Supply—Source, Cumberland river; system, pumping to reservoir, cap 50,000,000 gals; pumping engines, dy cap 30,000,000 gals; 487 hydrants; pipe 60 miles, 36 to 31 in dia; 450 valves; 7,454 taps; pressure 90 to 20 pounds; waterworks owned by city; cost to construct \$1,500,000; ann expenses \$78,000. Supt, Geo. Reyer.

Newbern, Dyer Co., population 2,500; fire area 10 acres; buildings, brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hose carriage, other apparatus, hooks and ladders; hose, rubber good 500 ft, cotton good 500 ft; value of fire department equipment \$1,000; total membership 20, volunteers; steam whistle alarm. Chief engineer, E. E. Davis.

Water Supply—Source, tubular well; system, pumping to standpipe; standpipe cap 15,000 gals; pumping engines, dy cap 60,000 gals; 5 hydrants; size of pipe 5 in; pressure, domestic 20, fire 100 pounds; waterworks owned by company; original cost to construct \$8,000. Supt, E. E. Davis.

Pulaski, Giles Co., population 3,500; fire area 1 square mile; mercantile buildings, brick, wood and stone, 1 to 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 100 ft, cotton good 1,000 ft; value of fire department equipment \$1,680; value of buildings occupied \$3,000; total ann. expenses of department \$2,139.72; total membership 55, paid full time; bell alarm. Chief engineer, John Q. Buckheist.

Water Supply—Source, 2 springs; system, pumping to reservoir; reservoir cap 750,000 gals; pumping engines, dy cap 900,000 gals; hydrants 30; pipe 6 miles, 6 and 4 in; pressure, domestic 50 to 75, fire 125 pounds; waterworks owned by company; cost to construct \$25,000; ann expenses \$1,500. Supt, Basil T. Dobree.

Shelbyville, Bedford Co., population 2,200; fire area 40 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1 and 2 stories. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft. Chief, C. A. Warner.

Water Supply—Source, cisterns and river; system, pumping by mill engine, 2 hydrants.*

South Pittsburgh, Marion Co., population 3,000; fire area 200 acres; mercantile buildings, wood, brick and iron, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted on new buildings; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon, other apparatus one 45 ft extension ladder; hose, rubber good 500 ft, cotton good 700 ft; value of fire department equipment \$2,000; value of buildings occupied \$600; total membership 20, volunteer members; whistle alarm. Chief engineer, George Vining.

Water Supply—Source, springs and Tennessee river; system, gravity and direct; pumping engines, dy cap 1,000,000 gals; 10 hydrants pipe 5 miles; 30 valves; pressure, domestic 10 to 90, fire 100 to 150 pounds; waterworks owned by company Supt, F. P. Clute.*

Springfield, Robertson Co., population 1,372; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage, ladders; hose, rubber good 500 ft, inferior 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$300; total membership 35, volunteers; bell alarm. Chief, J. E. Patton.

Water Supply—Source, cisterns, 3 on public square, cap 48,000. Town clerk, H. G. White.*

Trenton, Gibson Co., population 2,000; fire area 320 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$100; total membership 24, volun-

ters; bell alarm. Chief engineer, J. W. Cox.
WATER SUPPLY—Source, wells.

Tulahoma, Coffee Co., population 2,439; buildings, brick and wood, 1 and 2 stories. Fire department—1 hook and ladder truck; total membership 30, volunteers. Chief, W. A. Marshall.
WATER SUPPLY—Source, spring.

Union City, Obion City, population 4,500; fire area 700 to 800 acres; fire limits 25 acres; mercantile buildings, brick, wood and stone, 18 to 60 ft; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—3 hose carriages, all kinds; other apparatus, ladders; hose, cotton good 500 ft, inferior 475 ft; 2 horses, value \$300; value of fire department equipment \$1,000; total ann expenses of department \$300; total membership 15, paid full time 1, paid part time 1, volunteers 13; whistle alarm. Chief engineer, W. J. Roberts.

WATER SUPPLY—Source, deep wells; system, pumping direct; pumping engines, dy cap 2 of 1,000,000 gals each; hydrants 80; pipe 8 miles, 4 to 10 in dia; pressure, domestic 30 to 50, fire 70 to 100 pounds; waterworks owned by city; original cost to construct \$65,000; expenses of construction to date \$69,000. Supt, W. L. Alexander.

Winchester, Franklin Co., population 2,000; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose wagon; hose, rubber good 300 ft; value of fire department equipment \$350; total membership 65, volunteers; bell alarm; 3 fire companies. Chief engineer, N. W. Carter.*

WATER SUPPLY—Source, wells and cisterns.*

Places having a population of 1,000 and upward that have no fire protection: Briceville, Anderson Co., population 1,354; Brownsville, Hayward Co., population 2,516; Clinton, Anderson Co., population 1,198*; Coal Creek, Anderson Co., population 1,865; Cleveland, Bradley Co., population 2,863; Covington, Tipton Co., population 1,067; Greenville, Green Co., population 1,779; Henderson, Chester Co., population 1,068*; Hill Hamilton Co., population 1,636*; McKenzie, Carroll Co., population 1,168; Milan, Gibson Co., population 1,546*; Rockwood, Roan Co., population 2,429*; Ridgeville, Hamilton Co., population 1,254; Rogersville, Hawkins Co., population 1,153*; Savannah, Hardin Co., population 1,087; Soddy, Grundy Co., population 1,173; Tracy, Grundy Co., population 1,936; St. Elmo, Hamilton Co., population 2,577*.

TEXAS.

Abilene, Taylor Co., population 4,685; buildings, brick, 2 and 3 stories. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 1,100 ft, cotton good 1,000 ft; 3 horses, value \$600; value of fire department equipment \$5,500; value of buildings occupied \$2,500; total ann expenses of department \$2,000; total membership 60, paid full time 3; electric alarm. Chief engineer, J. J. Clinton.

WATER SUPPLY—Source, wells and Lytle creek; system, pumping to standpipe and direct; standpipe cap 115,000 gals; reservoir cap 300,000,000 gals; pumping engines, dy cap 2,000,000 gals; 60 hydrants; pipe 12 miles, 3 to 10 in dia; 12 valves; pressure 45 to 100 pounds; waterworks owned by city; cost to construct \$45,000; ann expenses \$6,000. Supt, J. J. Clinton.

Amarillo, Potter Co., population 1,200; mercantile buildings, stone and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, bucket brigade.

WATER SUPPLY—Source, wells.*

Arlington Heights, (Fort Worth P. O.) Tarrant Co., population not stated.

WATER SUPPLY—Source, artesian wells; system, pumping to tank, cap 105,000 gals; pumping engines, dy cap 260,600 gals; hydrants 40; pipe 3½ miles, 8 to 4 in dia; works owned by company; cost to construct \$60,000. Supt, H. W. Tallant, Fort Worth.*

Atlanta, Cass Co., population 1,764; fire area 8 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance.*

WATER SUPPLY—Source, wells. Town clerk, J. B. O'Farrell.*

Austin, Travis Co., population 20,000; fire area 120 acres; mercantile buildings, brick and rock, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds, 4 hose wagons; hose, cotton good 8,000 ft, inferior 1,500 ft; 10 horses, value \$3,000; value of fire department equipment \$29,000; value of buildings occupied \$22,000; total ann expenses of department \$9,000; total membership 278, paid full time 6, volunteer members 270; bell and telephone alarm. Chief engineer, Frank O. Babcock. (An aerial truck is contemplated.)

WATER SUPPLY—Source, wells in sand bar in Colorado river; system, direct pumping; pumping engines, dy cap 8,000,000 gals; 167 hydrants; pipe 46 miles, 4 to 16 in dia; 147 valves; 480 meters; pressure, domestic 100, fire 120 to 160 pounds; waterworks owned by company. Supt, R. H. Felter.

Bastrop, Bastrop Co., population 4,000; fire area 4 blocks sq; buildings, brick and wood, 1 and 2 stories. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 200 ft; value of fire department equipment \$500; total membership 35, volunteers; bell alarm. Chief, W. A. Goodman.*

WATER SUPPLY—Source, wells; system, pumping to standpipe; cap 10,000 gals; pumping engines, dy cap 75,000 gals; 6 hydrants; pipe 1,000 ft, 2½ in dia; pressure 20 pounds. Mayor, W. S. Craft; town clerk, F. A. Orgain. (New works are being built.)

Beaumont, Jefferson Co., population 4,000; fire area 10 blocks; buildings, brick and wood. Fire department—1 horse-power engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, slamsse couplings use 1, 3 hose reels; hose, rubber good 1,250 ft (5,750 ft distributed among the mills) 2 horses, value \$150; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total membership 80, volunteers; electric alarm; 3 fire companies. Chief engineer, E. C. Ogden.*

WATER SUPPLY—Source, Neches river; system, pumping to standpipe and direct; standpipe cap 100,000 gals; pumping engines, cap 600 gals per minute; 60 hydrants; pipe 5 miles, 4 to 8 in dia; 10 valves; pressure, domestic 40, fire 120 pounds; waterworks owned by city, leased to company for 30 years; cost to construct \$20,000, to date \$25,000. Supt, E. L. Bacon.

Bellville, Austin Co., population 1,050; fire area 250 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; no fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 4 ladders and 24 buckets; value of fire department equipment \$650; value of buildings occupied \$250; total ann expenses of department \$75; total membership 31, volunteers; bell alarm. Foreman, C. H. Glenn.

WATER SUPPLY—Source, cisterns and wells.

Bellton, Bell Co., population 3,500; fire area 250 acres; mercantile buildings, wood and stone, 1 and 2 stories; private, wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,800 ft, inferior 600 ft; 1 horse; value of fire department equipment \$3,500; value of buildings occupied \$2,500; total membership 65, volunteers; bell alarm. Chief, C. J. Glover.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; standpipe cap 250,000 gals; pumping engines, dy cap 500,000 gals; 28 hydrants; pipe 6 miles, 2½ to 8 in dia; 8 valves; pressure, domestic 85, fire 75 pounds; waterworks owned by town, leased to company; cost to construct \$42,000; ann expenses \$2,500. Supt, H. A. Wear.

Bonham, Fannin Co., population 4,500; fire area 17 acres; buildings, stone and brick, 1 and 2

stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft; value of fire department equipment \$1,000; value of buildings occupied \$4,000; total membership 40, volunteers; bell alarm. Secy, Jas. B. McKinney.

WATER SUPPLY—Source, 2 cisterns, cap 40,000, gals.*

Bremham, Washington Co., population 5,200; fire area 20 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 and 2 stories; iron roofs; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, siamese couplings used; hose, cotton good 250 ft, rubber good 2,000 ft; 3 hoses, value \$400; value of fire department equipment \$5,000; value of 3 buildings occupied and other property \$10,000; total membership 100, paid full time 3, volunteers 85; electric alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Wm. Luak.

WATER SUPPLY—Source, wells near Hog Branch; system, pumping to standpipe; standpipe cap 117,000 gals; pumping engines, dy cap 1,500,000 gals; 39 hydrants; pipe 5½ miles, 3 to 8 in dia; 12 valves; quality of water fair; pressure, domestic 50, fire 100 to 125 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$2,500. Supt, D. H. Watson.

Brownsville, Cameron Co., population 6,134; fire area 1 sq mile; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, inferior 350 ft; value of equipment \$1,000; total ann expenses \$180; total membership 50, volunteers; bell alarm. Chief engineer, M. Hanson, Jr.*

WATER SUPPLY—Source, Rio Grande river and cisterns. Mayor, Thos. Carson.

Brownwood, Brown Co., population 4,000; fire area 30 acres; buildings, stone and wood, 2 stories; metal roofs; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, good 2,000 ft; value of fire department equipment \$2,800; value of buildings occupied \$1,500; total membership 44, volunteers; bell alarm. Chief, Brooke Smith.

WATER SUPPLY—Source, Pecan Bayou; system, pumping to standpipe; standpipe cap 235,000 gals; pumping engines, dy cap 2,500,000 gals; 65 hydrants; pipe 8 miles, 4 to 10 in dia; 400 taps; pressure, domestic 40, fire 120 pounds; waterworks owned by city; cost to construct \$67,500; ann expenses \$1,800. Supt, John Kennedy.

Bryan, Brazos Co., population 3,979; fire area 11 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, siamese couplings used; hose, good 1,000 ft, inferior 500 ft; value of fire department equipment \$5,500; value of buildings occupied \$10,000; total ann expenses of department \$130; total membership 30, volunteers, paid 1; bell alarm. Chief engineer, B. F. Leman.

WATER SUPPLY—Source, wells; system, pumping to reservoir, standpipe and direct; reservoir cap 60,000 gals; standpipe cap 100,000 gals; pumping engines, dy cap 1,000,000 gals; 17 hydrants; pipe 6 miles, 2 to 8 in dia; 45 meters; pressure, domestic 50, fire 125 pounds; cost to construct \$30,000; ann expenses \$1,500. Supt, Wm. D. Cox.*

Burnet, Burnet Co., population 1,600; fire area 850 ft by 700 ft sq; mercantile buildings, stone and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—chemical extinguishers, 2 hose carriages. Chief, W. M. Spittles.*

WATER SUPPLY—Source, well and cisterns.*

Burton, Washington Co., population 384; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; shingle roofs used; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder combined with chemical engine, 24 rubber buckets; 32 members. Foreman, M. Fischer.

Caldwell, Burleson Co., population 1,800; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire de-

partment—1 hook and ladder truck, 1 hose carriage; hose, rubber good 600 ft; value of equipment \$1,000; total ann expenses of department \$300; total membership 33, volunteers; bell alarm. John Hoffman.

WATER SUPPLY—Source, wells; system, pumping to standpipe, cap 100,000 gals; pumping engines, dy cap 500,000 gals; 20 hydrants; 5 miles of mains, 6 to 2 in dia; 16 valves; 12 meters; 179 taps; pressure, domestic 40, fire 125 pounds; works owned by company; cost to construct \$25,500. Pres, M. P. Kelly; supt, B. R. Copeland.

Calvert, Robertson Co., population 3,500; fire area 200 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$4,000; value of buildings occupied \$750; total ann expenses of department \$975; total membership 48, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 2 hose companies; telegraph fire alarm; 19 boxes. Chief engineer, L. T. Fuller.

WATER SUPPLY—Source, Artesian wells; system, pumping to reservoir, standpipe and direct; reservoir cap 35,000 gals; standpipe cap 80,400 gals; pumping engines, dy cap 750,000 gals; 6 hydrants; pipe 4 1-8 miles, 2 to 8 in dia; 16 valves; 47 meters; pressure, domestic 40, fire 40 to 150 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$1,500. Pres, L. T. Fuller; supt, Jas. T. Fuller.

Cammeron, Milan Co., population 2,000; fire area 5 acres; buildings, brick and wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder, buckets; value of equipment \$500; total membership 25. Foreman, M. D. Wright.*

WATER SUPPLY—Source, wells and cisterns.*

Carthage, Panola Co., population 554; fire area ¼ mile; buildings, wood, 1 story; wooden roofs permitted. Fire department—1 hook and ladder and buckets; bell alarm; 1 fire company. Pres, I. T. Thompson.*

Cleese, Eastland Co., population 1,500; fire area ½ sq mile; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft; value of fire department equipment \$1,100; value of buildings occupied \$700; total ann expenses of department \$1,100; total membership 30, volunteers; 3 fire companies. Chief engineer, R. E. Davis.

WATER SUPPLY—Source, by damming a canyon; system, pumping to standpipe; reservoir cap 78,000,000 gals; standpipe cap 50,000 gals; pumping engines, dy cap 750,000 gals; 14 hydrants; pipe 6 miles, 4 and 4 in dia; 6 valves; works owned by company; cost to construct \$23,000; ann expenses \$1,000. Supt, W. N. Porter.

Clarendon, Donley Co., population 1,650; fire area 10 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 1 story; shingle roofs used; no fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, well; system, pumping direct; reservoir cap 200,000 gals; pumping engines, dy cap 100,000 gals; 105 hydrants; pipe 3½ miles, 3 in dia; 16 valves; pressure, domestic 45, fire 100 pounds; works owned by G. A. Latimer; cost to construct \$11,000; ann expenses \$600. Supt, G. A. Latimer.

Clarksville, Red River Co., population 2,500; fire area 9 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 chemical and hand engine on wheels, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$1,100; membership 22, volunteers. Chief, H. L. Norris.

WATER SUPPLY—Source, wells. (Waterworks contemplated.)

Cleburne, Johnson Co., population 6,000; fire area 2 by 3 blocks; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose,

rubber good 2,500 ft. cotton good 500 ft.; 6 horses, value \$750; value of fire department equipment \$6,475; value of buildings occupied \$750; total ann expenses of department \$2,250; total membership 31, paid full time 3, volunteer members 28; bell and electric alarm; street boxes 24. Chief engineer, Jesse T. Ellis.

WATER SUPPLY—Source, springs and artesian well; system, pumping to tank and direct; tank cap 110,000 gals; 3 pumping engines, dy cap 2,500,000 gals; 51 hydrants; pipe 17 miles, 2 to 12 in dia; 28 valves; 10 meters; 950 taps; pressure, domestic 45, fire 130 pounds; works owned by company; cost to construct \$31,000, cost to date \$115,000; ann expenses \$6,000. Secy, L. W. Chase.

Colorado, Mitchell Co., population 1,583; fire area 3-4 mile sq; buildings, brick and wood, 2 stories. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber inferior 450 ft, cotton good 600 ft; value of equipment \$1,300; value of buildings occupied \$500; total expenses for past year \$125; total membership 16, volunteers. Chief engineer, H. S. M. Bean.

WATER SUPPLY—Source, wells; system, pumping to standpipe; dy cap 235,000 gals; pumping engines, dy cap 250,000 gals; 15 hydrants; pipe 5 or 6 miles, 6 to 12 in dia; 15 valves; pressure 55 pounds; waterworks owned by town, leased to Caldwell & Fletcher; cost to construct \$45,000; ann expenses \$2,400. Receiver, R. L. Borein.

Columbus, Colorado Co., population 2,199; fire area 25 blocks; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 500 ft, rubber 500 ft; value of fire department equipment \$2,500; total membership 32, volunteers; bell alarm. Chief, H. Wagenfuhr.

WATER SUPPLY—Source, Colorado river; system, pumping to tank; tank cap 53,000 gals; pumping engines, dy cap 350,000 gals; hydrants 9; pipe 3 miles, 6 in; pressure, domestic 40, fire 120 pounds; waterworks owned by city; original cost to construct \$23,000; ann expenses \$500. Supt, D. Steiner.

Comanche, Comanche Co., population 3,500; fire area 3-4 mile sq; mercantile buildings, stone and brick, 2 stories; private, stone and brick, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$1,500; value of buildings occupied \$500; total membership 27, volunteers; bell alarm; 1 hook and ladder company. Chief engineer, E. W. Harris.

WATER SUPPLY—Source, wells and cisterns.

Corpus Christi, Nueces Co., population about 5,000; fire area 2 sq miles; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine (not used), 12 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 500 ft, rubber good 1,000 ft, inferior 800 ft; value of fire department equipment \$12,000; value of buildings occupied \$1,500; total ann expenses of department \$900; total membership 70, paid full time 1, part time 3, volunteers 68; bell alarm; 5 fire companies. Chief engineer, Theo. B. Dunn.

WATER SUPPLY—Source, Nueces river, 16 miles N. W. of city; system, pumping to standpipe and direct; standpipe cap 150,000 gals; 2 pumping engines, dy cap 1,500,000 gals; hydrants 65; pipe 4 miles, 10 to 4 in dia; 6 valves; 62 meters; pressure 65 pounds; waterworks owned by city and company, cost to construct \$145,000, cost to date \$148,000; ann expenses \$3,000. Supt, Daniel Reid.

Corsicana, Navarro Co., population 8,000; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 3,500 ft; horses 6, value \$1,600; value of fire department equipment \$5,000; value of buildings occupied \$20,000; total expenses for past year \$2,700; total membership 55, paid full time 3; bell alarm. Chief engineer, E. H. Church.

WATER SUPPLY—Source, artificial lake; system, pumping to standpipe; standpipe cap 230,000 gals; 2 pumping engines, dy cap 1,500,000 gals; 61 hydrants; pipe 11 miles, 4 to 10 in dia; 50 meters;

pressure, domestic 40, fire 40 to 80 pounds; waterworks owned by company; cost to construct \$119,000; ann expenses \$3,500. Pres, Sam'l R. Frost; supt, B. C. Lewis.

Omaha, DeWitt Co., population 3,300; fire area 1 mile sq; buildings, wood and brick, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 12 chemical extinguishers, 2 hose carriages; hose, rubber good 1,700 ft, leather poor 300 ft; value of fire department equipment \$2,500; value of buildings occupied \$200; total membership 22, volunteers; bell alarm. Chief engineer, John Welch.

WATER SUPPLY—Source, Guadalupe river; system, pumping to standpipe; standpipe cap 165,000 gals; pumping engines, dy cap 500,000 gals; 43 hydrants; pipe 6 miles, 4 to 8 in dia; 19 valves; pressure, domestic 45, fire 120 pounds; waterworks owned by city; cost to construct \$39,000; ann expenses \$1,650. City clerk, Geo. H. Law.

Dallas, Dallas Co., population 40,000; fire area 175 acres; mercantile buildings, stone, brick and iron, 3 to 6 stories; private, wood and brick, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages, 1 supply wagon, 1 hose cart; hose, rubber good 5,000 ft, inferior 3,500 ft; 23 horses, value \$3,500; value of fire department equipment including all property \$109,845; total ann expenses of department \$41,000; total membership 41, paid full time; Gamewell alarm; 88 street boxes, 3 private boxes, 6 tappers; 4 engines companies, 1 hook and ladder company, 1 hose company. Chief engineer, Theo. Wilkinson. (Proposed additions: 1 steam engine company, 1 chemical engine company, 1 hose company, 1 hook and ladder company.)

WATER SUPPLY—Source, Trinity river and springs; system, pumping to reservoir and standpipe; 2 reservoirs, cap 130,000,000 gals; standpipe cap 250,000 gals; pumping engines, dy 14,000,000 gals; 283 hydrants; pipe 53 miles, 3 to 18 in dia; 230 valves; 14 meters; pressure 40 to 53 pounds; waterworks owned by city; cost to construct \$900,000, to date \$900,000; ann expenses \$35,000. Supt, J. M. Strong.

Decatur, Wise Co., population 2,500; fire area 1 sq mile; mercantile buildings, stone, 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$500; total ann expenses of department \$100; total membership 30, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, A. Kramer.

WATER SUPPLY—Source, well; system, pumping to reservoir and standpipe; reservoir cap 85,000 gals; standpipe cap 38,000 gals; pumping engines, dy cap 250,000 gals; hydrants 24; pipe 4 1/2 miles, 6 to 4 in dia; pressure, domestic 30, fire 150 pounds; waterworks owned by A. R. Whitehead; cost to construct \$13,750, to date \$13,750; ann expenses \$1,200.

Denison, Grayson Co., population 15,500; fire area 3,600 acres; mercantile buildings, brick, stone and iron, 1 to 5 stories; private, brick, stone and wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 3 hose carriages; hose, cotton good 1,000 ft, inferior 800 ft, rubber good 800 ft, inferior 800 ft; 6 horses, value \$900; value of fire department equipment \$7,400; total ann expenses of department \$7,000; total membership 16, paid full time 6, paid part time 10; electric alarm, 6 boxes. Chief engineer, W. F. Yocom.

WATER SUPPLY—Source, wells, tunnels and reservoir; system, pumping to standpipe and direct; standpipe cap 200,000 gals; reservoir cap 120,000,000 gals; pumping engines, dy cap 3,000,000 gals; 106 hydrants; pipe 15 miles, 4 to 16 in dia; 45 valves; 450 meters; pressure, domestic 75, fire 150 pounds; waterworks owned by company; cost to construct \$225,000; ann expenses \$6,500. Supt, M. J. Fitzgerald.

Denton, Denton Co., population 4,500; fire

area 640 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 1 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, hose, rubber inferior 500 ft, cotton good 1,200 ft, inferior 500 ft; 3 horses, value \$300; value of department equipment \$8,000; value of buildings occupied \$4,000; total ann expenses of department \$2,000; total membership 37, paid full time 1, volunteer members 36; bell alarm. Chief engineer, R. M. Kilco.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; standpipe cap 100,000 gals; 2 pumping engines, dy cap 500,000 gals; hydrants 40; pipe 4 in dia, 8 to 4 in; pressure, domestic 45, fire to 250 pounds; waterworks owned by company; original cost to construct \$50,000. Secy, A. F. Evers.

Dublin, Erath Co., population 3,500; fire area 4 sq miles; mercantile buildings, rock and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2, 6 gal chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,600 ft; value of fire department equipment \$3,300; value of buildings occupied \$2,000; total ann expenses of department \$250; total membership 56, volunteer members; bell and whistle alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, J. G. O'Brien.

WATER SUPPLY—Source, wells 1 mile from city; system, pumping to standpipe; standpipe cap 60,000 gals; pumping engines, dy cap 60,000 gals; hydrants 20; pipe 4 miles, 2 to 8 in; pressure, domestic 50, fire 100 pounds; waterworks owned by company; original cost to construct \$30,000; expenses of construction to date \$40,000. Supt, H. A. Smith.

Eagle Pass, Maverick Co., population 2,500; buildings, stone and wood, 1 and 2 stories. No organized fire department.*

WATER SUPPLY—Source, Rio Grande river; system, pump to reservoir, cap 2,000,000 gals; pumping engines; 10 hydrants; pipe 6½ miles, 10 to 3 in dia; pressure 40 to 65 pounds; cost to construct \$38,000. Supt, J. Kelly.*

Elgin, Bastrop Co., population 1,000; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, linen good 500 ft; value of equipment \$600; value of buildings occupied \$10,000. Chief, C. H. King.

WATER SUPPLY—Source, well; system, pumping to standpipe, cap 50,000 gals; dy cap 500,000 gals; quality of water soft; works owned by city; cost to construct \$6,000. Mayor, C. A. King; city clerk, A. H. Carter. (Works not completed).*

El Paso, El Paso Co., population 12,000; fire area 1,300 acres; mercantile buildings, brick, 2 to 4 stories; private, brick, 1 and 2 stories; wooden roofs not permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages; hose, cotton good 3,200 ft, rubber good 400 ft; 6 horses; value \$1,400; value of fire department equipment \$12,000; value of buildings occupied \$16,000; total ann expenses of department \$5,000; total membership 135, paid full time 4, paid part time 2; electric bell and telephone alarm; 96 boxes; 3 hose companies, 1 hook and ladder company. Chief, Frank Powers.

WATER SUPPLY—Source, Rio Grande river; system, pumping to reservoir; reservoir cap 9,000,000 gals; pumping engines, dy cap 4,000,000 gals; 52 hydrants; pipe 12 miles, 4 to 16 in dia; 64 valves; 1,100 taps; pressure 80 pounds; waterworks owned by company; cost to construct \$80,000. Pres, S. Watts; supt, W. H. Watts.

Emmle, Ellis Co., population 5,000; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, 1 hose wagon; hose, cotton good 1,800 ft, inferior 200 ft; 4 horses, value \$600; value of fire department equipment \$6,000; value of buildings occupied \$500; total membership 36, volunteers; bell and electric alarm; 3 fire companies. Chief engineer, J. C. Loggins.

WATER SUPPLY—Source, lake; system, pumping to standpipe; lake cap 100,000,000 gals; pumping engines, dy cap 500,000 gals; 50 hydrants; pipe 5 miles, 8 to 4 in dia; works owned by company; cost to construct \$60,000. Mayor, J. B. Jones; town clerk, A. N. Kendrick.

Floresville, Wilson Co., population 913; mercantile buildings, brick, 2 stories, and wood, 1 story; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, surface wells and cisterns.*

Fort Worth, Tarrant Co., population 30,000; fire area 3,200 acres; mercantile buildings, brick and stone, 2 to 8 stories; private, wood, (some brick and stone), 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 8 chemical extinguishers, 1 hook and ladder truck (out of repair), 1 aerial truck, 6 hose carriages, all kinds; hose, rubber good 5,500 ft; 21 horses, value \$4,000; value of fire department equipment (including fire alarm) \$58,000; value of buildings occupied \$19,000; total ann expenses of department \$41,400; total membership 230, paid full time 16, volunteers 214; Gamewell alarm; 52 street boxes. Chief engineer, Benjamin U. Bell.*

WATER SUPPLY—Source, 3 artesian wells and Trinity river; system, pumping standpipe, cap 305,000 gals; pumping engines, dy cap 21,000,000 gals; 450 hydrants; pipe 51 miles, 6 to 36 in dia; 522 valves; 51 meters; 1,993 taps; pressure, domestic 85, fire 120 pounds; works owned by city; cost to construct \$372,000, to date 1,000,000; ann expenses \$40,000. Supt, A. W. Soobie.

Franklin, Robertson Co., population 1,000; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; tin roofs; no fireworks ordinance. Fire department—1 hook and ladder truck and buckets; value of fire department equipment \$100; total membership 26. Chief, Tom Hillier.

WATER SUPPLY—Source, public cisterns; artesian well.*

Fredericksburgh, Gillespie Co., population 1,532. Fire department—1 hook and ladder truck; total membership volunteers. Chief, Oscar Krauskopf.*

Gainesville, Cooke Co., population 10,000; fire area 680 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 6 hose wagons; hose, cotton rubber lined good 3,500 ft, inferior 1,500 ft; 6 horses, value \$1,200; value of fire department equipment \$10,500; value of building occupied \$10,000; total ann expenses of department \$4,000; total membership 94, paid full time 4, volunteers 85; telephone and bell alarm. Chief, Jas. Bramble.

WATER SUPPLY—Source, Elm river; system, direct pumping; reservoir cap 115,000,000 gals; pumping engines, dy cap 3,500,000 gals; hydrants 118; pipe 114-10 miles; 29 valves; 280 meters; 450 taps; pressure, domestic 60, fire 120 pounds; waterworks owned by company; cost to construct to date \$220,000. Supt, H. B. Fletcher.

Galveston, Galveston Co., population 40,000; fire area 3 by 8 sq miles; mercantile buildings, brick, 2 to 4 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—4 steam fire engines, 1 chemical engine on wheels, 6 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 7 hose carriages, all kinds; hose, cotton good 12,000 ft, poor 500 ft, linen good 1,000 ft; 36 horses, value \$5,500; value of fire department equipment \$101,700; value of buildings occupied \$48,700; total ann expenses of department \$66,710; total membership 64, paid full time; Gamewell alarm; street boxes 52. Chief engineer, Ernest Wegner. (3 new hose wagons contemplated.)

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe; reservoir cap 1,250,000 gals; standpipe cap 557,000 gals; pumping engines, dy cap 6,000,000 gals; hydrants 385; pipe 33 miles, 6 to 24 in dia; 390 valves; 5 meters; 804 taps; pressure, domestic 60, fire 100 pounds; Boston pres-

sure recording gauge; works owned by city; cost to construct \$450,000; ann expenses \$16,000. Supt, Wm. Oldenburg.

Gatesville, Coryell Co., population about 2,500; fire area $\frac{3}{4}$ mile square; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 15 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 500 ft, cotton good 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,500; total ann expenses of department \$600; total membership 30, volunteers; bell alarm. Chief engineer, H. C. Voss.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe, cap 58,718 gals; pumps, dy cap 164,833 gals; hydrants 6; pipe $5\frac{1}{2}$ miles, 6 to 3 in dia; 16 valves; 280 taps; pressure, domestic 40, fire 200 pounds; works owned by company; cost to construct \$24,100; ann expenses \$2,000. Supt, J. D. Hopkins.

Georgetown, Williamson Co., population 4,000; fire area 16 acres; mercantile buildings, stone, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton inferior 1,450 ft, rubber good 150 ft; value of fire department equipment \$3,000; value of buildings occupied \$750; total membership 75, volunteers; bell alarm; 1 hook and ladder company; 2 hose companies. Chief engineer, Jas. B. Garver.*

WATER SUPPLY—Source, springs on San Gabriel river; system, pumping to standpipe; standpipe cap 281,500 gals; pumping engines, dy cap 1,500,000 gals; 21 hydrants; pipe 11 miles, 2 to 10 in dia; 23 valves; 8 meters; 380 taps; pressure, domestic 40, fire 40 to 100 pounds; waterworks owned by city, leased to company; cost to construct \$51,000; ann expenses \$3,000. Supt, E. E. Taylor.

Giddings, Lee Co., population 1,700; fire area 1 mile square; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 360 ft, poor 100 ft; value of fire department equipment \$1,250; total membership 40, volunteers; bell alarm. Chief, Charles H. Joekel.

WATER SUPPLY—Source, cisterns.

Glen Rose, Somerville Co., population 800; fire area 75 acres; mercantile buildings, stone and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.*

WATER SUPPLY—Source, wells.

Gonzales, Gonzales Co., population 3,500; fire area 24 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 600 ft; value of equipment \$700; value of buildings occupied \$100; total membership 35, volunteers; bell alarm. Foreman, John Ollie.

WATER SUPPLY—Source, Guadalupe river; system, pumping to standpipe and direct; standpipe cap 80,000 gals; reservoir cap 60,000 gals; pumping engines, dy cap 1,000,000 gals; 24 hydrants; pipe 9 $\frac{1}{2}$ miles, 8 to 3 in dia; 29 valves; pressure, domestic 35, fire 120 pounds; waterworks owned by company; cost to construct \$25,000; ann expenses \$1,200. Supt, R. H. Walker.

Greenville, Hunt Co., population 4,330; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 1,500 ft, rubber good 2,500 ft; 2 hoses; value of fire department equipment \$6,000; value of buildings occupied \$3,500; total ann expenses of department \$1,500; total membership 26, paid 1; bell alarm. Chief engineer, R. K. Lane.*

WATER SUPPLY—Source, Cowlach, fork of Sabine river; system, pumping to standpipe and direct; reservoir cap 310,000,000 gals; standpipe cap 189,000 gals; pumping engines, dy cap 1,250,000 gals; 65 hydrants; pipe $5\frac{1}{2}$ miles, 6 to 15 in dia; 16 valves; 72 meters; pressure, domestic 50, fire 100 pounds; works owned by company; cost to

construct \$118,000; ann expenses \$800. Supt and engineer, Ed. L. Riddle.

Groesbeck, Limestone Co., population 1,500; fire area 4 sq blocks; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$1,000; value of department buildings \$500; total membership 20, volunteers; bell alarm. Chief, Jno. W. Harper.

WATER SUPPLY—Source, reservoir fed by springs; system, pumping to standpipe, cap 90,000 gals; reservoir cap 300,000 gals; pumping engines, dy cap 500,000 gals; 20 hydrants; pipe 3 miles, 4 to 6 in dia; 12 valves; pressure 45 to 125 pounds; works owned by city; cost to construct \$27,000; ann expenses \$1,000. Supt, T. J. Johnson.

Hallettsville, Laraca Co., population 1,600; fire area 1 $\frac{1}{4}$ sq miles; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 750 ft; value of equipment \$1,000; value of buildings \$750. Chief, Charles Pillar.

WATER SUPPLY—Source, artesian well; system, pumping from reservoir to standpipe; cap 23,000 gals; pumping engines, dy cap 500,000 gals; 23 hydrants; pipe 2 miles, 8 to 4 in dia; 100 taps; pressure, domestic 45, fire 125 pounds; works owned by city; cost to construct \$18,000; ann expenses \$4,000. Supt, J. M. Cummings, Jr.

Hempstead, Waller Co., population 1,800; fire area 250 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. No fire department—1 hook and ladder truck not used; a hand engine, hose, hook and ladder truck are contemplated.

WATER SUPPLY—Source, cisterns and wells. (Waterworks contemplated.)

Henrietta, Clay Co., population 2,500; fire area 300 acres; mercantile buildings, stone and brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carts; hose, rubber good 175 ft, cotton good 1,000 ft; 1 horse, value \$200; value of fire department equipment \$2,500; value of buildings occupied \$750; total membership 40, volunteers; bell alarm. Chief engineer, C. W. Easley.

WATER SUPPLY—Source, 36 gang wells; system, pumping to reservoir and standpipe; reservoir cap 60,000 gals; standpipe cap 87,000 gals; pumping engines, dy cap 250,000 gals; 26 hydrants; pipe $3\frac{1}{2}$ miles, 8, 6 and 4 in; 2 valves; pressure, domestic 45, fire 80 pounds; waterworks owned by city; original cost to construct \$24,000; ann expenses \$1,200. Supt, M. Crouse.

Hillsboro, Hill Co., population 4,200; fire area 45 acres; buildings, brick and wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,200 ft, inferior 300 ft; value of fire department equipment \$9,000; value of buildings occupied \$700; total ann expenses of department \$1,200; total membership 60, paid full time 1; bell alarm. Chief engineer, A. L. Blanchard.

WATER SUPPLY—Source, wells and cisterns. (Waterworks contemplated.)

Honey Grove, Fannin Co., population 3,000; fire area 10 acres; buildings, stone, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—hook, ladder, buckets, etc.; membership 100. L. C. Lee, master.

WATER SUPPLY—Source, wells and cisterns.

Houston, Harris Co., population 42,000; fire area 50 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; iron and slate roofs; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3,500 ft, rubber good 2,000 ft; 12 hoses, value \$2,500; value of fire department equipment \$23,000; val-

use of buildings occupied \$43,000; total ann expenses of department \$12,125; total membership 230, volunteers, paid full time 19; electric alarm; 50 street boxes; 5 fire companies. Chief engineer, Thos. H. Martin.

WATER SUPPLY—Source, artesian wells on bank of Buffalo Bayou; system, pumping to standpipe and direct; standpipe cap 750,000 gals; pumping engines, dy cap 8,000,000 gals; 300 hydrants; pipe 45 miles; 75 valves; 14 meters; pressure, domestic 45, fire 125 pounds; waterworks owned by company; cost to construct to date \$400,000; ann expenses est \$40,000. Supt. F. J. Smith.*

Huntsville, Walker Co., population 1,509; fire area 1 mile sq; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 2 hose carriages, all kinds; hose, cotton good 400 ft; bell alarm; 2 hose companies. Chief engineer, F. O. Brown.

WATER SUPPLY—Source, artesian well; system, pump to standpipe, cap 120,000 gals; pumping engines; 15 hydrants; pipe 1 mile, 8 to 4 in dia; 10 valves; pressure 35 pounds. Town clerk, F. B. Robinson.

Jefferson, Marion Co., population 3,072; fire area 1 sq mile; mercantile buildings, brick and wood, 1 and 2 stories; private, brick and wood, 2 and 3 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,000 ft, leather good 900 ft; value of fire department equipment \$6,000; value of buildings occupied \$10,000; total ann expenses of department \$150; total membership 40, volunteers; bell alarm. Chief engineer, F. S. Rowans.*

WATER SUPPLY—Source, river and cisterna.*

Kerrville, Kerr Co., population 2,000; fire area 200 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 24 buckets, axes, lanterns and picks; total membership 23, volunteers; bell alarm. Foreman, John H. Ward.

WATER SUPPLY—Source, wells and cisterna.

Kyle, Hays Co., population 1,000; fire area 100 acres; mercantile buildings, stone and wood, 1 story; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$500; ann expenses \$175; total membership 42, volunteers; bell alarm. Chief, D. W. Banner.

WATER SUPPLY—Source, Rio Blanco river, 18½ miles west of town; system, pumping to tanks; 2 tanks, cap 63,000 gals; pumping engines, dy cap 100,000 gals; 10 hydrants; pipe 8 miles, 5, 4 and 3 in dia; 5 meters; pressure 40 pounds; waterworks owned by company; cost to construct \$12,000; ann expenses \$800. Free, H. Hellmann; supt, J. L. McCarrile.

LaGrange, Fayette Co., population 2,500; fire area 12½ acres; mercantile buildings, stone and brick, 1 and 2 stories; private, wood, 1 and 2 stories; tin roofs; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 hose carriages; hose, cotton good 1,200 ft, inferior 200 ft, linen good 200 ft; total membership 22, volunteers; bell alarm. Captain, T. S. Brown.

WATER SUPPLY—Source, river; system, pumping to standpipe; standpipe cap 350,000 gals; pumping engines, dy cap 750,000 gals; 25 hydrants; pipe 5 miles, 8, 6, 4 in dia; 36 valves; pressure, domestic 56, fire 140 pounds; works owned by city and company; cost to construct \$39,000. Supt, J. A. Hopland.*

Lampasas, Lampasas Co., population 3,000; mercantile buildings, brick and rock, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hook and ladder trucks, 1 hose carriage; hose, rubber good 400 ft, cotton good 1,500 ft, inferior 500 ft; 2 hoses, value \$300; value of fire department equipment \$2,500; bell alarm. Chief engineer, E. S. Noble.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 115,000 gals; pumping engines, dy cap 1,250,000 gals; 2 hydrants; pipe 4 miles; pressure, domestic 40 to 50,

fire 100 to 120 pounds; waterworks owned by town; cost to construct \$40,000; ann expenses \$2,000. Chief engineer, H. E. Hedeman.*

Laredo, Webb Co., population 11,319; fire area 640 acres; mercantile buildings, brick and stone, 1 and 2 stories; private, brick and adobe, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose reels, 1 hose wagon; hose, rubber good 200 ft, cotton good 1,800 ft, inferior 200 ft; 3 hoses, value \$700; value of fire department equipment \$7,000; value of buildings occupied \$5,000; total membership 29, paid full time 3, paid part time 26; bell alarm. Chief engineer, W. H. Adams.

WATER SUPPLY—Source, Rio Grande river and driven wells; system, pumping to standpipe and direct; standpipe cap 94,000 gals; pumping engines, dy cap 4,500,000 gals; 109 hydrants; pipe 14 miles, 18 to 4 in; 58 valves; pressure, domestic 45, fire 75 pounds; waterworks owned by company; original cost to construct \$100,400; expenses of construction to date \$153,000; ann expenses \$10,000. Supt, J. W. Gaw.

Llano, Llano Co., population 1,000; buildings, brick, stone and wood, 1, 2 and 3 stories. Fire department none.

WATER SUPPLY—Source, Llano river; system, pumping to reservoir, cap 54,000 gals, dy cap 200,000 gals; pipe 5 miles, 2 in dia; 15 valves; 3 meters; pressure 45 pounds; cost to construct to date \$15,000; ann expenses \$500. Supt, J. H. Knowles.*

Lockhart, Caldwell Co., population 2,000; fire area 2 sq miles; buildings, stone and wood, 1 and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck; value of fire department equipment \$600; value of buildings occupied \$300; membership 29, volunteers. Chief, E. B. Cogwood.*

WATER SUPPLY—Source, 2 large ponds; system, pump to tanks, cap 45,000 gals, dy cap 20,000 gals; pipe 1½ miles, 4 and 3 in dia; cost to construct \$2,000; ann expenses \$150. Owner and supt, W. F. Blunt.*

Longview, Gregg Co., population 2,634; fire area 10 acres; buildings, brick and wood, 1 story. Fire department—1 steam fire engine, 1 hose carriage; hose, cotton good 900 ft, inferior 50 ft; value of fire department equipment \$3,000; total ann expenses of department \$100; total membership 18, paid 1, volunteers; bell alarm. Chief, T. E. Chumour.

WATER SUPPLY—Source, 1 cistern, cap 50,000 gals.*

Luling, Caldwell Co., population 1,798; fire area 1 sq mile; mercantile buildings, wood, brick and stone, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$800; total membership 45, volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, R. W. Malone.

WATER SUPPLY—Source, San Marcos river; system, pumping to standpipe and direct; standpipe cap 85,000 gals; pumping engines, dy cap 750,000 gals; 15 hydrants; pipe 5 miles, 8 to 1 in dia; 13 valves; 200 tape; pressure, domestic 45, fire 30 pounds; works owned by company; cost to construct \$25,000; ann expenses \$1,000. Supt, C. Bellinger.

Marlin, Falls Co., population 2,066. Fire department—1 hand engine; hose, good 200 ft; total membership 18, volunteers; bell alarm.*

WATER SUPPLY—Source, cisterna, wells. Town clerk, C. J. Bartlett.

Marshall, Harrison Co., population 9,000; fire area 25 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, all kinds; hose, rubber good 3,500 ft, inferior 500 ft; 4 hoses, value \$600; value of fire department equipment \$10,000; value of buildings occupied \$3,500; total ann expenses of department \$1,500; total membership 75, paid full time 2, volunteer

members 73; bell alarm; 3 fire companies. Foreman, Joe Deckert; secy, J. W. Hendon.

WATER SUPPLY—Source, wells; system, pumping to standpipe; standpipe cap 168,000 gals; pumping engines, dy cap 1,000,000 gals; 55 hydrants; pipe 9 miles, 10 to 4 in dia; 30 valves; pressure, domestic 45 to 50, fire 160 pounds; works owned by city; cost to construct \$67,000. Supt, A. F. McAllister.

McKinney, Collin Co., population 2,489; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 750 ft, inferior 250 ft, rubber good 100 ft; 4 horses, value \$800; value of fire department equipment \$6,000; value of buildings occupied \$2,000; total ann expenses of department \$800; total membership 40, paid full time 1, paid part time 1 volunteers 38; bell alarm. Chief engineer, A. L. Jones.*

WATER SUPPLY—Source, public and private cisterns and wells.*

Mexia, Limestone Co., population 2,500; fire area 1 mile radius; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in city limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carts; hose, rubber good 800 ft, inferior 200 ft; value of fire department equipment \$1,500; total ann expenses of department \$116; total membership 30, volunteers, paid full time 3; bell alarm. Chief engineer, S. P. Denning.

WATER SUPPLY—Source, artificial lake; system, pumping to standpipe and direct; standpipe cap \$8,000 gals; pumping engines, dy cap 750,000 gals; 16 hydrants; pipe 5 miles, 6 in dia; pressure, domestic 40, fire 60 to 80 pounds; waterworks owned by company; cost to construct \$33,000; ann expenses \$2,000. Supt and secy, John R. Corley.*

Navasota, Grimes Co., population 4,000; fire area 1 mile sq; buildings, stone and wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 800 ft, cotton good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$280; total expenses for past year \$800; total membership 40; bell alarm; 1 hook and ladder company, 1 hose company, Chief, W. N. Norwood.

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir and standpipe; reservoir cap 100,000 gals; standpipe cap 84,000 gals; pumping engines, dy cap 1,150,000 gals; 12 hydrants; pipe 9 miles, 2 to 6 in dia; 40 valves; 3 meters; pressure, domestic 26 to 60, fire 120 to 160 pounds; waterworks owned by city, leased to E. L. Bridges; cost to construct \$28,000; ann expenses \$1,400. Supt, E. L. Bridges.

New Braunfels, Comal Co., population 2,000; buildings, stone, wood and brick, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,200 ft, rubber inferior 200 ft; value of fire department equipment \$1,800; total membership 45, volunteers; bell alarm. Chief engineer, C. A. Jahn.

WATER SUPPLY—Source, Comal river; system, pumping to standpipe and direct; standpipe cap 210,000 gals; pumping engines, dy cap 1,500,000 gals; 40 hydrants; pipe 8 miles, 8, 6, 4 in dia; 30 valves; 252 taps; pressure, domestic 40, fire 150 pounds; waterworks owned by city; cost to construct \$33,000; ann expenses \$1,800. Supt, Chas. Ultes.

Oak Cliff, Dallas Co., population 5,000; fire area 1,000 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; 2 horses, value \$300; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$250; total membership 25, volunteers. Chief, W. H. W. Smith.*

Orange, Orange Co., population 4,250; buildings, brick and wood, 1, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 350 ft, cotton good 750 ft, linen good

250 ft; value of fire department equipment \$6,700; total membership 60, volunteers; bell alarm. Chief engineer, J. S. Brice.

WATER SUPPLY—Source, river; system, pumping to reservoir; pumping engines; 20 hydrants; pipe 1 mile; cost to construct \$5,000. City clerk, J. L. Goodman.*

Palestine, Anderson Co., population 5,838; fire area 300 acres; buildings, brick and wood, 1 and 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 500 ft, inferior 150 ft, cotton good 500 ft; 1 horse; value of fire department equipment \$3,500; value of buildings occupied \$3,000; total ann expenses of department \$100; total membership 78, volunteers; bell and telephone alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief, A. L. Bowers.*

WATER SUPPLY—Source, 2 artificial lakes; system, pumping to standpipe and direct; cap of reservoir 75,000,000 gals; pumping engines, dy cap 2,500,000 gals; 43 hydrants; pipe 19 miles, 4 to 12 in dia; 38 valves; 15 meters; 750 taps; pressure, domestic 50, fire 80 to 125 pounds; waterworks owned by company; cost to construct \$150,000, to date \$175,000; ann expenses \$3,600. Manager, Harry L. Wright.

Paris, Lamar Co., population 8,254; fire area 30 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; hose, rubber good 2,000 ft, inferior 800 ft; 6 horses, value \$1,000; value of fire department equipment \$12,000; value of buildings occupied \$10,000; total ann expenses of department \$3,500; total membership 54, paid full time 2, volunteers 51; telephone alarm; 1 engine company, 1 hook and ladder company, 2 hose companies. Chief engineer, Chas. E. Thorne.*

WATER SUPPLY—Source, wells and tunnels; system, pumping to standpipe; standpipe cap 305,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 107; pipe 12 miles, 4 to 10 in; 65 valves; 250 taps; pressure, domestic 60, fire 100 pounds; waterworks owned by city; cost to construct \$83,000, cost to date \$92,810. Supt, John A. Porter.

Pearshall, Frio Co., population 1,000; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage, bucket brigade; value of fire department equipment \$750; 30 volunteer members. Capt, C. H. Beaver.

WATER SUPPLY—Source, cisterns and wells pumped by wind mills, cisterns elevated.

Pecos City, Reeves Co., population 393; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; no organized fire department; hose, rubber good 1,000 ft.

WATER SUPPLY—Source, artesian wells, good pressure. Town clerk, R. S. Johnson.

Quanah, Hardeman Co., population 3,500; fire area 1 sq mile; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 4 water wagons; hose, rubber good 350 ft; 2 horses, value \$300; value of fire department equipment \$4,000; value of buildings occupied \$500; total ann expenses of department \$275; total membership 30, volunteers; bell alarm. Chief engineer, J. I. Kendrick.

WATER SUPPLY—Source, wells. (Bonds issued for waterworks will probably build this year.)

Rockdale, Milam Co., population 2,500; fire area 1 sq mile; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000 ft; value of buildings occupied \$300; total membership 50, volunteers; bell alarm; 3 fire companies. Pres, J. E. Longmoor; chief, J. B. Hamilton.

WATER SUPPLY—Source, wells; system, pumping to reservoir and standpipe; reservoir cap 45,000 gals, standpipe cap 93,000 gals; pumping en-

gines, dy cap 750,000 gals; hydrants 17; pipe 3 miles, 6, 4 and 2 in dia; 14 valves; taps 134; pressure, domestic 50, fire 110 pounds; waterworks owned by company; original cost to construct \$25,000. Supt, R. H. Ames.

Round Rock, Williamson Co., population 1,200; fire area 200 acres; mercantile buildings, stone, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, 1 hose wagon; hose, linen good 500 ft; value of fire department equipment \$1,900; total ann expenses of department \$150; total membership 35, volunteers. Chief, R. Tatch.

WATER SUPPLY—Source, wells and cisterna.*

San Angelo, Tom Green Co., population 2,613; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,300 ft, cotton good 250 ft; value of equipment \$1,700; value of buildings occupied \$500; total membership 45, volunteers; bell alarm. Chief engineer, J. W. Harris.

WATER SUPPLY—Source, North Concho river; system, pumping to tank and direct; tank cap 120,000 gals; pumping engines, dy cap 1,750,000 gals; 50 hydrants; pipe 9 miles, 3 to 12 in dia; 80 valves; 40 meters; 250 taps; pressure, domestic 60, fire 180 to 220 pounds; pressure recording gauge; waterworks owned by company; cost to construct \$90,000; ann expenses \$2,400. Pres, I. S. Millsaugh; supt, Jno. J. Murley.

San Antonio, Bexar Co., population 60,000; fire area 40 miles; mercantile buildings, stone and brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—4 steam fire engines, 1 chemical engine on wheels, 8 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 7 hose carriages, all kinds, 1 hose wagon; hose, cotton good 8,000 ft, inferior 1,000 ft; 22 horses, value \$5,000; value of fire department equipment \$60,100; value of buildings occupied \$54,000; total membership 60, paid full time; Gaynor alarm; street boxes 84. Chief engineer, R. E. Kehoe.

WATER SUPPLY—Source, San Antonio river and springs; system, pumping to reservoir and direct; reservoir cap 5,000,000 gals; pumping engines, dy cap 11,000,000 gals; 105 hydrants; pipe 120 miles, 4 to 24 in dia; 40 meters; pressure, domestic 60, fire 150 pounds; 6,700 taps; Edison pressure recording gauge; waterworks owned by company; cost to construct \$680,000; ann expenses \$20,000. Pres, G. W. Brachenredge; supt J. Ulrich.

San Diego, Duval Co., population 5,000; fire area 1,900 acres; mercantile buildings, brick and wood, 1 to 5 stories; private, brick and wood, 1 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 6 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages, all kinds, 1 hose wagon; hose, rubber, good 400 ft, cotton good 4,000 ft, inferior 500 ft; 11 horses, value \$2,200; value of fire department equipment \$25,000; value of buildings occupied \$2,500; total ann expenses of department \$15,500; total membership 61, paid full time 9, paid part time 32, volunteer members 20; Gamewell alarm; 24 street boxes; 7 fire companies, 2 engine companies, 2 hook and ladder companies, 3 hose companies. Chief engineer, A. B. Cairns.*

WATER SUPPLY—Source not reported.

San Marcos, Hays Co., population 2,750; buildings, brick, stone and wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,700 ft, inferior 400 ft; value of fire department equipment \$1,500; total ann expenses of department \$400; total membership 51, volunteers; 1 hook and ladder company, 2 hose companies. Chief engineer, J. R. Porter.

WATER SUPPLY—Source, San Marcos river; system, pumping to reservoir and direct; reservoir cap 230,000 gals; 2 pumping engines, dy cap 1,500,000 gals; 28 hydrants; pipe 7 3/4 miles, 4 to 8 in dia; 34 valves; 12 meters; pressure 75 to 100 pounds; waterworks owned by company; cost to construct \$50,000; ann expenses \$2,000; Supt, R. Pettit.

San Saba, San Saba Co., population 697; mercantile buildings, brick, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance. No fire department.*

WATER SUPPLY—Source, spring; system, pumping direct; pumping engines, dy cap 94,120 gals; 115 hydrants; pipe 4 1/2 miles, 3 to 4 in dia; works owned by company; cost to construct to date \$3,500. Supt, James Bennett.

Schulenburg, Fayette Co., population 900; buildings, wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 private hand engines, 1 hook and ladder truck; hose, good 200 ft; total membership 40, volunteers; bell alarm. Chief engineer, N. L. McKinnon.*

WATER SUPPLY—Source, 5 cisterna, cap 40,000 gals. Town clerk, Fred. Ebelling.*

Sealy, Austin Co., population 830; buildings, wood and stone; wooden roofs permitted; fireworks ordinance. Fire department—24 chemical extinguishers, 1 hook and ladder truck; membership 28. Chief, J. T. Martin. (Co disbanded for the present.)

WATER SUPPLY—Source, wells and cisterna.

Seguin, Guadalupe Co., population 1,716; fire area 320 acres; mercantile buildings, brick, wood and concrete, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 400 ft, inferior 100 ft; value of fire department equipment \$2,000; value of buildings occupied \$400; total membership 30, volunteers; bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, F. J. Burges.*

WATER SUPPLY—Source, Guadalupe river; system, pumping to standpipe and direct; standpipe cap 60,000 gals; pumping engines, dy cap 1,500,000 gals; 15 hydrants; 15 valves; pipe 12 miles, 10 to 4 in dia; pressure, domestic 45, fire 60 pounds; waterworks owned by company; cost to construct \$30,000; ann expenses \$2,000. Pres, J. T. Holmes; supt, Jas. T. Holmes.

Sherman, Grayson Co., population about 10,000; fire area 640 acres; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon, slamee couplings used; hose, rubber good 1,000 ft, inferior 1,200 ft, cotton good 500 ft; 8 horses, value \$1,500; value fire department equipment \$12,000; value of buildings occupied \$15,000; total ann expenses of department \$4,000; total membership 90, paid 5; bell and telephone alarm. Chief engineer, Thos. Forbes, Jr.

WATER SUPPLY—Source, gang wells; system, pumping to standpipe; standpipe cap 305,200 gals; 2 pumping engines, dy cap 1,500,000 gals; 90 hydrants; pipe 10 miles, 4 to 10 in dia; 27 valves; 60 meters; 600 taps; pressure, domestic 65, fire 160 pounds; waterworks owned by city; cost to construct \$90,000; ann expenses \$6,000. Supt, Lou McKown.

Sulphur Springs, Hopkins Co., population 3,088; fire area 100 acres; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,800 ft, inferior 300 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 36, paid part time 1, volunteers 35; bell alarm. Chief engineer, S. W. Summer.*

WATER SUPPLY—Source, wells and cisterna.*

Taylor, Williamson Co., population 5,000; fire area 400 acres; buildings, brick, stone and wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,500 ft, poor 500 ft; 2 horses, value \$500; value of fire department equipment \$5,000; value of buildings occupied \$1,000; total membership 87, paid full time 1, part time 2, 84 volunteers; bell alarm; 3 hose companies, 1 hook and ladder company. Chief engineer, G. R. King.

WATER SUPPLY—Source, springs and San Ga-

bril river; system, pumping to standpipe, cap 198,000 gals; pumping engines, dy cap 2,000,000 gals; 43 hydrants; pipe 18 miles, 12 to 2 in dia; 40 valves; 20 meters; pressure 60 to 140 pounds; waterworks owned by company; cost to construct est \$85,000; ann expenses \$3,000. Pres, G. W. Burkitt; manager, A. A. Stevens.*

Temple, Bell Co., population 9,000; fire area 10 blocks; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 aerial trucks, 2 hose carriages, 2 hose wagons; R. R. Co. has hose and cart; hose, rubber good 1,500 ft, inferior 1,000 ft; 4 horses, value \$1,200; value of fire department equipment \$8,000; value of buildings occupied \$3,000; total membership 75, volunteers; bell alarm; 1 hook and ladder company, 4 hose companies. Chief, Stewart Wheeler.

WATER SUPPLY—Source, Leon river; system, pump to standpipe, cap 248,000 gals; reservoir, cap 6,000,000 gals; pumping engines, dy cap 1,500,000 gals; 54 hydrants; pipe 18½ miles; 30 valves; pressure 60 to 150 pounds; waterworks owned by company; cost to construct \$110,000; ann expenses \$12,500. Pres, Geo. E. Wilcox.

Terrell, Kaufman Co., population 5,000; fire area 50 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, ladders; hose, cotton good 500 ft, rubber good 1,000 ft; 2 horses, value \$400; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann expenses of department \$800; total membership 35, volunteers; bell alarm. Chief engineer, C. E. Anthony.

WATER SUPPLY—Source, wells; system, pumping to standpipe and direct; standpipe cap 75,000 gals; pumping engines, dy cap 3,000,000 gals; 75 hydrants; pipe 4 miles, 8 to 4 in dia; pressure, domestic 55, fire 180 pounds; waterworks owned by company; cost to construct \$40,000; ann expenses \$3,000. Supt, C. D. Curswell.

Texarkana, Bowie Co., population 5,852; buildings, brick and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 2,000 ft, inferior 500 ft; value of fire department equipment \$2,500; value of buildings occupied \$300; total membership 24, volunteers; bell alarm. Chief, J. B. Kizer.*

WATER SUPPLY—See Texarkana Ark report which includes the Texas side.

Tyler, Smith Co., population 9,000; fire area 1 sq mile; buildings, wood and brick, 1 and 2 stories; metal roofs only are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 2,000, inferior 200 ft; 3 horses, value \$600; value of fire department equipment \$4,500; total ann expenses of department \$1,600; total membership 60, paid full time 3, rest volunteers; bell alarm. Chief, J. P. Taylor.

WATER SUPPLY—Source, springs; system, pump to standpipe and direct; standpipe cap 150,000 gals; pumping engines, dy cap 2,000,000 gals; 100 hydrants; 4 to 13 in dia; 28 valves; pressure, domestic 50, fire 100 pounds; waterworks owned by company; cost to construct \$140,000; ann expenses \$5,000. Pres, Ben B. Cain; secy, W. Frank Knox. (Have purchased a 2,000,000 gal pumping engine, will spend \$50,000 on improvements.)

Uvalde, Uvalde Co., population 2,000; fire area 50 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; value of fire department equipment \$1,200; value of buildings occupied \$125; total ann expenses of department \$150; total membership 36, volunteer members; bell alarm. Chief engineer, D. M. Edwards.

WATER SUPPLY—Source, well; system, pumping to standpipe; standpipe cap 100,000 gals; pumping engines, dy cap 500,000 gals; hydrants 24; pipe 6 miles, 6 and 4 in dia; 125 taps; pressure, domestic 150 pounds, fire same; waterworks owned by com-

pany; original cost to construct \$22,500; expenses of construction to date \$35,000; ann expenses \$1,500. Supt, C. W. Watt.

Vernon, Wilbarger Co., population 3,000; fire area 1 sq mile; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,000 ft; value of equipment \$5,000; value of buildings occupied \$250; membership 25, volunteers. Chief, J. L. Malven.*

WATER SUPPLY—Source, gang wells, 24 ft deep; system, pumping to standpipe; standpipe cap 50,000 gals; pumping engines, dy cap 1,000,000 gals; 41 hydrants; pipe 2 miles, 8 to 2 in dia; pressure, domestic 40, fire 100 pounds; works owned by company; cost to construct \$25,000. Receiver, Jno. S. Phillips.

Victoria, Victoria Co., population 6,000; fire area 2 miles sq; buildings, brick and wood, 1 and 2 stories; shingle and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 3 jumpers; hose, rubber good 1,800 ft, leather good 400 ft; value of fire department equipment \$3,175; value of 3 buildings occupied \$1,300; total membership 60, volunteers; bell alarm. Chief, L. A. Fritz.

WATER SUPPLY—Source, Guadalupe; system, pumping to standpipe and direct; standpipe cap 150,000 gals; pumping engines, dy cap 1,000,000 gals; 63 hydrants; pipe 5½ miles, 4 to 8 in dia; 16 valves; 255 taps; pressure, domestic 35 to 45, fire 40 to 150 pounds; waterworks owned by city; cost to construct \$45,000, cost to date \$58,000; ann expenses \$2,000. Supt, Wm. Wheeler.

Waco, McLennan Co., population 16,000; fire area 9 sq blocks; mercantile buildings, brick in fire limits, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 hook and ladder trucks, 3 hose carriages, all kinds; hose, rubber good 2,500 ft, inferior 1,000 ft; 14 horses, value \$3,000; value of fire department equipment \$24,000; value of buildings occupied \$18,000; total ann expenses of department \$12,000; total membership 90, paid full time 10, volunteer members 90; Gamewell alarm; street boxes 17; 4 fire companies, 2 engine companies, 1 hook and ladder company, 1 hose company. Chief engineer, A. M. Prescott.*

WATER SUPPLY—Source, artesian wells; system, gravity; 2 standpipes, cap 208,000 gals each; cap of wells 3,000,000 gals; 180 hydrants; pipe 42 miles, 16 to 2 in dia; 123 valves; 6 meters; pressure, domestic 60 pounds, fire same; works owned by company; cost to construct \$250,000, to date \$276,000. Pres, J. D. Bell; supt, A. M. Prescott.*

Waxahachie, Ellis Co., population 3,076; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 chemical extinguishers, 2 hose carriages; hose, rubber good 1,000 ft, cotton good 600 ft, inferior 800 ft; value of fire department equipment \$8,000; value of buildings occupied \$4,000; total ann expenses of department \$300; total membership 40, volunteers; bell alarm. Chief engineer, Frank Hopper.*

WATER SUPPLY—Source, reservoir; system, pumping to standpipe, cap 115,000 gals; pipe 5 miles, 8 to 4 in dia; works owned by company; cost to construct \$45,000; works not constructed; temporary works—Source, artesian well; system, pumping to reservoir, cap 120,000 gals; 4 hydrants; 1½ miles, 4 in pipe; pressure 40 to 150 pounds; works owned by city; cost \$10,000. Mayor, E. A. DuBose.

Weatherford, Parker Co., population 6,000; fire area 50 acres; buildings, wood, brick and stone, 1 and 2 stories. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,800 ft; value of fire department equipment \$7,500; total ann expenses of department \$500; total membership 60; bell alarm. Chief, E. Putman.

WATER SUPPLY—Source, wells; system, pump to reservoir, cap 1,100,000 gals; pumping engine, dy cap 1,000,000 gals; 26 hydrants; pipe 4 miles, 4 to 10 in dia; 15 valves; 5 meters; pressure, do-

menstic 45, fire 150 pounds; waterworks owned by company; cost to construct \$75,000; ann expenses \$1,300. Supt, J. M. Bassett.*

Weldmar, Colorado Co., population 1,443; buildings, stone and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam engine, 1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber 1,100 ft, cotton rubber lined 1,000 ft; value of fire department equipment \$3,750; value of building occupied \$500; total membership 40, volunteers; bell alarm. Chief engineer, A. F. Rose.

WATER SUPPLY—Source, wells; system, pump to elevated cisterna, cap 30,000 gals; pump cap 1,600 gals per day; 6 hydrants; pipe 1,500 ft, 2 in dia; 6 valves; works owned by city; cost to construct \$3,500; ann expenses \$250. Supt, J. Lowry.

Whitney, Hill Co., population 800; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance. Fire department—7 chemical extinguishers, 1 hook and ladder truck; value of equipment \$300; value of buildings occupied \$150; total ann expenses of department \$15; total membership 20, volunteers; bell alarm. Foreman, Sam Strauss.

WATER SUPPLY—Source, 3 wells and cisterna.

Wichita Falls, Wichita Co., population 3,500; fire area 6 sq blocks; mercantile buildings, wood, brick and stone, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department \$600; total membership 81, paid full time 1, volunteers 50; bell alarm. Chief engineer, J. H. Bormise, Jr.

Box Elder, Box Elder Co. (includes Brigham City), population 3,000; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$1,000; total ann expenses of department \$400; membership 32, volunteers; bell alarm. Chief, H. S. Steed.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 240,000 gals; 32 hydrants; pipe 4 miles, 8 to 3 in dia; 6 valves; 150 taps; quality of water good; pressure, domestic 65 to 70, fire 75 pounds; waterworks owned by city; original cost to construct \$28,000; ann expenses \$500. Pres and mayor, Jno. D. Peters; supt, L. Olsen.

Brigham City, Box Elder Co. (See Box Elder.)

Enreka, Juab Co., population 1,733; mercantile buildings, brick, stone and wood, 1 and 2 stories.*

WATER SUPPLY—Source, springs; system, pumping to tank; tanks cap 60,000 gals; pumping engines, dy cap 120,000 gals; 6 hydrants; pipe 5 1-5 miles, 4 to 2 in dia; pressure 110 pounds; works owned by company; ann expenses \$3,000. Pres, M. Thatcher Logan; supt, A. Burck.*

Heber, Wasatch Co., population 1,538; mercantile buildings, stone, brick and frame, 2 stories; private, stone, brick and frame, 1 story; shingle roofs; fireworks ordinance. No organized fire department.*

WATER SUPPLY—Source, Provo river, streams and wells. Town clerk, A. Y. Duke.*

Logan, Cache Co., population 6,000; fire area 120 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine, 2 hose carriages, 2 hose carts; hose, cotton good 1,500 ft, rubber good 300 ft; 2 hoses, value \$150; value of fire department equipment \$4,000; value of buildings occupied \$600; total ann expenses of department for past year \$1,400; membership 13, paid part time 12, paid full time 1; bell alarm. Chief, W. C. Cates.

WATER SUPPLY—Source, not stated; reservoir cap 2,000 gals; pumping engines, dy cap 500,000 gals; 2 hydrants.

Weakams, Dewitt Co., population 3,500; mercantile buildings, wood, 1 story; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber new 1,000 ft; value of fire department equipment \$2,000; total membership 45, volunteers; bell alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief, J. T. Shindler.

WATER SUPPLY—Source, wells; system, pumping to reservoir and direct; reservoir cap 100,000 gals; standpipe cap 90,000 gals; pumping engines, dy cap 750,000 gals; 30 hydrants; pipe 5 miles, 2 to 8 in dia; 10 valves; 3 meters; 120 taps; pressure, domestic 40, fire 150 pounds; waterworks owned by company; original cost to construct \$25,000; expenses of construction to date \$30,000. Pres and supt, James Blanks.

Places having a population of 1,000 and upward that have no fire protection: Big Spring, Howard Co., population 1,158*; Bowie, Montague Co., population 1,498*; Crockett, Houston Co., population 1,445; Farmersville, Collin Co., population 1,093; Flatonia, Fayette Co., population 1,304; Granbury, Hood Co., population 1,104*; Henderson, Rusk Co., population 1,536*; Groveton, Trinity Co., population 1,076*; Kaufman, Kansas Co., population 1,288*; Mineola, Wood Co., population 1,333*; Nasoscoches, Nasoscoches Co., population 1,138*; Pilot Point, Denton Co., population 1,090*; Pittsburg, Camp Co., population 1,303*; Rio Grande, Starr Co., population 1,968*; Rusk, Cherokee Co., population 1,383*; San Marcial, El Paso Co., population 1,397; Whitesboro, Grayson Co., population 1,170*; Willis Point, Van Zant Co., population 1,025.

UTAH

WATER SUPPLY—Source, Logan river; system, gravity; reservoir; 30 hydrants; pipe 3 miles, 18 to 10 in 15; valves; pressure, domestic 35 to 80, fire 135 pounds; waterworks owned by city; cost to construct \$37,000; ann expenses \$700. Supt, Jos. Tarbet.

Manti, San Pete Co., population 1,950. Fire department—1 hook and ladder truck.*

WATER SUPPLY—Source, springs; system, gravity; pipe 1 3-4 miles (waterworks in course of construction). Town clerk, Wm. T. Jack.*

Nephi, Juab Co., population 2,500; mercantile buildings, brick, adobe and frame, 1 and 2 stories; private, same; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,500. Chief engineer, D. M. Miller.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 100,000 gals; 14 hydrants; pipe 7 miles, 8 to 3; 184 taps; 15 valves; pressure, average 85 pounds; waterworks owned by city; original cost to construct \$23,000; expenses of construction to date \$25,000. Supt, D. M. Miller.

Ordem, Weber Co., population 22,000; fire area 160 acres; mercantile buildings, brick, stone and adobe, 3 to 5 stories; private, brick, stone and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 8 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage, 2 hose wagons, life line, Pomper shooting apparatus; hose, cotton good 8,000 ft; 11 hoses, value \$2,550; value of fire department equipment \$60,000; value of buildings occupied \$30,000; total ann expenses of department \$24,000; total membership 41, paid full time 19, volunteers 22; Gamewell alarm; 18 street boxes. Chief engineer, William Binford.

WATER SUPPLY—Source, Ordem river and tributaries; system, gravity; reservoir cap 6,500,000 gals; 108 hydrants; pipe 32 miles, 30 to 3 in dia; 170 valves; 60 meters; 1,600 taps; pressure, domestic 35, fire 120 to 135 pounds; Eison pressure recording gauge; waterworks owned by company. Pres, James H. Bacon; supt, P. M. Hooley.

Park City, Summit Co., population 4,000; buildings, stone and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft, linen good 550 ft; value of equipment \$3,700; value of buildings \$2,000; ann expenses \$500; total membership 60. Chief, John L. Webster.

WATER SUPPLY—Source, mountain stream; system, gravity; capacity of dam and reservoirs 1,000,000 gals; pipe 3 miles; 16 hydrants; pressure 88 pounds; cost to construct \$19,500. Pres, E. Kimball; supt, Walter Willcocks.*

Provo City, Utah Co., population 6,000; fire area 50 acres; mercantile buildings, brick, 1 to 3 stories; private, brick and wood, 1 and 1½ stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hose wagon; hose, cotton good 1,000 ft, inferior 400 ft; 4 horses, value \$600; value of fire department equipments \$7,000; value of buildings occupied \$3,500; total membership 25, paid full time 1, part time 1, rest volunteers; bell alarm. Chief engineer, J. C. Withers.

WATER SUPPLY—Source, Provo river; system, gravity; settling basin, cap 130,000 gals; 82 hydrants; pipe 23 miles, 4 to 14 in dia; 65 valves; 300 taps; galvanized iron pipe; pressure, domestic 98, fire 68 to 110 pounds; waterworks owned by city; original cost to construct \$124,000; ann expenses \$1,000. Supt, Eph Homer.

Salt Lake City, Salt Lake Co., population 65,000; fire area 12,000 acres; mercantile build-

ings, brick and stone, 3 to 7 stories; private, brick and stone, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, all klude, 2 hose wagons, 3 hand hose reels; hose, cotton good 4,000 ft, inferior 2,700 ft; 17 horses, value \$200 each; value of fire department equipment and buildings \$125,000; total ann expenses of department \$8,928; total membership 97, paid full time 30, volunteers 67; electric alarm; 53 street boxes. Chief engineer, Jas Devine.

WATER SUPPLY—Source, mountain streams and spring; system, gravity; 2 reservoirs, cap 12,000,000 gals; 852 hydrants; pipe 120 miles, cast-iron 4 to 30 in dia; 1,167 valves; 8,863 taps; quality of water spring; pressure, domestic 85, fire 118 to 150 pounds; works owned by city; ann expenses \$34,000. Supt, Daniel S. Griffin.

Tooele, Tooele Co., population 1,008; mercantile buildings, brick, stone and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted. No fire department.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 85,000 gals; 5 hydrants; pipe 6 miles, 8 to 2½ in dia; 3 valves; 100 taps; pressure 80 pounds; waterworks owned by company; cost to construct \$20,000. Pres, Francis M. Lyman, Sr.; supt, H. S. Goryana.

Places having a population of 1,000 or more without fire protection: Smithfield, Coshie Co., population 1,080; Spanish Fork, Utah Co., population 2,204.

VERMONT.

Arlington, Bennington Co., population 1,533; fire area 250 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; shing, iron and tin roofs; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, linen good 200 ft, inferior 900 ft; value of fire department equipment \$200; value of buildings occupied \$260; total membership 46, volunteers; bell alarm; 1 fire company. Chief engineer, L. A. Buck.

WATER SUPPLY—Source, stream.*

Bakersfield, Franklin Co., population 1,162; fire area 1,002 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. No fire department.*

Barre, Washington Co., population 10,000; fire area 10 miles sq; mercantile buildings, stone, brick and wood, 3 stories; private, wood 2 stories; wooden roofs not permitted in business section; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3,000 ft, inferior 1,500 ft, value of fire department equipment \$4,500; value of buildings occupied \$3,500; total ann expenses of department \$3,500; total membership 60, volunteers; electric alarm; 15 street boxes. Chief engineer, L. J. Griffin.

WATER SUPPLY—Source, brook; system, gravity; 67 hydrants; pipe 20 miles, 4 to 16 in dia; 84 valves; 500 taps; pressure 125 to 250 pounds; waterworks owned by company. Supt, N. D. Phelps.

Barton, Orleans Co., population 2,217; fire area 100 acres; mercantile buildings, wood, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs permitted; causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton rubber lined good 1,450 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total membership 40, volunteers; bell alarm; 4 hose companies. Chief engineer, J. N. Webster.

WATER SUPPLY—Source, May brook and pond; system, gravity; reservoir cap 1,500,000 gals and storage reservoir; 22 hydrants; pipe 3½ miles, 12 to 4 in dia; 11 valves; pressure 100 to 150 pounds; waterworks owned by village; cost to construct \$18,500; ann expenses \$75 to \$100. Chairman, E. F. Dutton.

Barton Landing, Orleans Co., population 525; fire area 3-4 mile sq; mercantile buildings, wood, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire depart-

ment—1 hand engine, 1 hose carriage, 50 pails, 6 ladders; hose, cotton good 1,100 ft; total ann expenses of department \$400; value of equipment \$1,200; value of buildings \$500; total membership 30, volunteers; bell alarm. Chief, C. E. Josiah.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 28,000 gals; 2 hydrants; pipe 3½ miles, ¾ to 3 in dia; 8 valves; pressure, domestic 40 to 60 pounds; waterworks owned by company; cost to construct \$4,800. Pres, A. D. Mathews, (\$6,000 to be spent for improvements, fire hydrants etc.)

Bellows Falls, Windham Co., population 2,229; fire area ¼ mile; mercantile buildings, brick, 3 and 4 stories; private, wood, 2 stories; mansard and slate roofs; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, mills have 2 steam pumps and 7 rotary fire pumps; hose, cotton rubber lined good 3,500 ft, mills have rubber lined good 5,500 ft, and linen good 4,000 ft; 3 horses; value of fire department equipment \$9,500; value of buildings occupied \$8,000; total ann expenses of department \$1,800; total membership 68, paid part time, volunteers; Stevens electric alarm; 7 street boxes; 1 engine company, 1 hook and ladder company, 3 hose companies. Chief engineer, C. L. Wheeler.

WATER SUPPLY—Source, Minard's pond; system, gravity; reservoir cap 75,000,000 gals; 51 hydrants; pipe 12 miles, 3 to 8 in dia; 60 meters; pressure 108 to 140 pounds; waterworks owned by village; cost to date \$90,000; ann expenses \$5,000. Pres, A. Coolidge; supt, F. A. George.

Bennington, Bennington Co., population 6,400; fire area 720 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 3,800 ft; 1 horse, value \$200; value of fire department equipment \$11,000; value of buildings \$7,600; total ann expenses of department \$3,600; total membership 108, paid part time 3, volunteers 105; Gamewell alarm; 10 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, F. M. Tiffany.

WATER SUPPLY—Source, mountain springs; system, gravity; reservoir cap 2,000,000 gals; 30 hydrants; pipe 6 miles, 12 in dia; valves; pressure 125 pounds; waterworks owned by company; cost to construct \$60,000. Supt and treas, E. H. Putnam.*

Bethel, Windsor Co., population 1,448; buildings, brick and wood, 1½ and 2 stories; wooden roofs permitted. Fire department—2 chemical

extinguishers, 1 hose carriage; hose, linen good 1,200 ft, rubber good 200 ft; value of fire department equipment \$2,500; total membership 16; bell and steam whistle alarm. Chief, S. M. Washburn. **WATER SUPPLY**—Source, river; system, direct pumping; 8 hydrants; pipe 2,000 ft. Supt, Fred Arnold.

Bradford, Orange Co., population 1,429; fire area 300 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 600 ft, inferior 300 ft, leather good 300 ft; value of fire department equipment \$2,500; value of buildings occupied \$800; total membership 50, volunteers; bell alarm. Chief engineer, John S. Bloknell.*

WATER SUPPLY—Source, springs and stream; system, gravity; reservoir cap 1,000,000 gals; 4½ miles of pipe, 4 to 10 in dia; 30 hydrants; 30 valves; cost of works \$40,000. Chairman, E. Farnham; secy, H. A. Winship.

Brandon, Rutland Co., population 3,310; mercantile buildings, brick, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs are permitted, mostly shingle and slate roofs; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, linen unlined inferior 300 ft, leather good 600 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total membership 30, volunteers; bell alarm. Chief engineer, T. C. Maguire.*

WATER SUPPLY—Source, Fern lake; system, gravity; 41 hydrants; pipe 7 miles, 4 to 18 in dia; 20 valves; 350 taps; pressure, domestic 40, fire 60 to 85 pounds; waterworks owned by fire district; cost to construct \$40,000; ann expenses \$500. Supt, Chas. W. Briggs.

Brattleboro, Windham Co., population 8,862; fire area 1 mile; mercantile buildings, brick, 3 stories; private, wood, 2½ stories; wooden roofs permitted; causes of fire investigated. Fire department—2 steam engines, 1 hand engine, 12 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 4,400 ft, inferior 2,600 ft, rubber good 400 ft, 5 horses, value \$550; value of fire department equipment \$13,000; value of buildings occupied \$14,000; total ann expenses of department \$4,900; total membership 100, paid full time 80, paid part time 25, 60 volunteers; Gamewell alarm; 17 street boxes; 2 engine companies, 1 hook and ladder company, 2 hose companies. Chief engineer, Cecil C. Turner.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 8,000,000 gals; pumping engines, dy cap 500,000 gals; 26 hydrants; pipe 16 miles, 2 to 12 in dia; valves; pressure 100 pounds; waterworks owned by company; cost to construct \$200,000; ann expenses \$1,200. Pres, Geo. E. Crowell; supt, S. H. Warren.

Bristol, Addison Co., population 1,828; mercantile buildings, wood, 1 and 2 stories; private, wood, 1½ stories; slate roofs principally; no fireworks ordinance; causes of fire investigated. No organized fire department—8 chemical extinguishers. Mfg Co. have put in hose, pumps, etc.

WATER SUPPLY—Source, springs.*

Burk, Caledonia Co., population 1,198; fire area whole town; mercantile buildings, wood, 1 and 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—bucket brigade. No waterworks.

Burlington, Chittenden Co., population 15,500; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 8 chemical extinguishers, 1 hook and ladder truck, 9 hose carts; hose, cotton good rubber lined 7,000 ft, poor 2,000 ft; value of equipment \$14,000; value of buildings occupied \$40,000; ann expenses \$6,200; total membership 250, volunteers; Gamewell alarm; 29 street boxes. Chief engineer, Wm. E. Morse.

WATER SUPPLY—Source, Lake Champlain; system, pumping to reservoir, cap 7,000,000 gals; pumping engines, dy cap 1,500,000 gals; 175 hydrants; pipe 32.14 miles, 4 to 16 in dia; 383 valves; 878 meters; quality of water good; pressure 20 to 14½ pounds; waterworks owned by city; cost to construct to date \$376,770. Supt, F. H. Crandall.

Charleston, Orleans Co., population 1,058; mercantile buildings, wood, 1 and 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance. No fire department.

WATER SUPPLY—Source, wells and river.

Chelsea, Orange Co., population 1,230; fire area 2 miles; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 550 ft; value of fire department equipment \$1,000; value of buildings occupied \$650; total membership volunteers; bell alarm. Chief engineer, E. D. Barnes.

WATER SUPPLY—Source, ponds and river.

Chester, Windsor Co., population 1,787; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 and 2 stories; shingle roofs principally; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine in village, 1 hand engine in town, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,800 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,000; total ann expenses of department \$150; total membership 20, paid part time; bell and whistle alarm. Chief engineer, Frank W. Adams.

WATER SUPPLY—Source, ponds and river. Town clerk, A. D. L. Herriek.

Colchester, Chittenden Co. (See Winooki.)

Danby, Rutland Co., population 2,000. Fire department not reported.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 5,000 bbls; 6 hydrants; pipe 3 miles, 1½ and 2 in dia; pressure, domestic 120, fire 120 pounds; waterworks owned by S. L. Griffith; expenses of construction to date \$6,500; ann expenses \$300. City clerk, W. F. Otis, Jr.

Derby Line, Orleans Co., population 3,500; mercantile buildings, brick and wood, 2 and 2½ stories; private, wood, 2 and 2½ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 3 hose carriages, all kinds; hose, cotton good 1,425 ft, leather 100 ft; total membership 50, volunteers; bell alarm. Chief engineer, Wm. M. Pike.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 240,000 gals; 53 hydrants; pipe 4½ miles, 10 to 4 in; 130 taps; 15 valves; pressure 73 to 150 pounds; waterworks owned by company; original cost to construct \$25,000; expenses of construction to date \$30,000. Supt, W. C. Hubert.

Enosburg Falls, Franklin Co., population 1,200; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—10 chemical extinguishers, 2 hose carriages, all kinds; hose, rubber inferior 300 ft, cotton good 1,300 ft; total membership 50, volunteers; steam alarm. Chief engineer, H. F. Young.

WATER SUPPLY—Source, river; system, pumping direct; pumping engine, cap 2,200 gals per minute; 25 hydrants; pipe 4 miles, 8 to 4 in; 15 taps; 25 valves; pressure, domestic 70, fire 140 pounds; waterworks owned by village; original cost to construct \$15,000; ann expenses \$250. Supt, V. A. Irish.

Fair Haven, Rutland Co., population 3,000; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hose carriages; hose, linen good 2,000 ft; value of fire department equipment \$500; value of buildings occupied \$1,200; total membership 60, volunteers; bell alarm; 2 hose companies. Chief engineer, D. F. Carnody.

WATER SUPPLY—Source, Inman pond; system, gravity; 30 hydrants; pipe 13 miles, 2 to 12 in dia; 23 valves; pressure 180 pounds; waterworks owned by village; cost to construct \$35,000; ann expenses \$400. Pres, Frank E. Allen; supt, O. A. Bryant.

Grafton, Windham Co., population 817; buildings, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine; hose, cotton good 50 ft.

WATER SUPPLY—Source, river. Town clerk, L. S. Walker.

Hardwick, Caledonia Co., population 1,547

WATER SUPPLY—Source, stream; system, gravity; 13 hydrants; pipe 2½ miles, 10 to 4 in dia; 10 valves; quality of water excellent; pressure 114 pounds; works owned by city; cost to construct \$12,000. Supt. O. H. Marsh.

Himesburg, Chittenden Co., population 1,218; fire area 6 miles sq; mercantile buildings, wood, 1½ and 2 stories; private, same; wooden roofs permitted; no fireworks ordinance. No fire department; bucket brigade.

Hyde Park, Lamoille Co., population 1,633; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.

WATER SUPPLY—Source, springs; system, gravity and pump to reservoir; dy cap 40,000 gals; pipe 3 miles, 1 and 2 in dia; cost to construct \$3,000; ann expenses \$200. Owner, C. S. Page.

Island Pond, Essex Co., population estimated 1,200. Fire department—3 hand engines, 3 hose carriages; hose, linen fair 800 ft, rubber fair 500 ft; total membership 60, volunteers.

WATER SUPPLY—Source, springs; system, gravity; 5 hydrants; pipe 3 miles; 200 taps; pressure 50 to 100 pounds; waterworks owned by company; cost to construct \$12,000; ann expenses \$125. Pres. G. W. Noyes; supt., A. K. Darling.

Johnson, Lamoille Co. Fire department not reported.

WATER SUPPLY—Source, spring; system, gravity and pumping to reservoir; reservoir cap 35,000 gals; pumping engines, cap 18,000 gals in 10 hours; 4 hydrants; pipe 1½ miles, 2 in; 16 taps; waterworks owned by private party.

Ludlow, Windsor Co., population 2,000; fire area 300 acres; buildings, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages, slamese couplings used; hose, cotton good 800 ft, rubber 700 ft; value of fire department equipment \$4,000; value of buildings occupied \$4,000; total membership 25; mills and factories have private protection; bell alarm. Chief engineer, Nathan Boynton.

WATER SUPPLY—Source, river and fumes.

Lyndenville, Caledonia Co., population 1,500; fire area 40 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 24 chemical extinguishers, 1 hose carriage; hose, cotton good 700 ft; 2 hoses, value \$900; value of fire department equipment \$900; value of buildings occupied \$6,000; total ann expenses of department \$200; total membership 20, volunteers; whistle alarm; 1 fire company. Chief engineer, Thomas Halse.

WATER SUPPLY—Source, reservoir 135 ft above village; system, gravity; 8 hydrants; pipe 4 miles; works owned by R. R. Co.

Manchester, Bennington Co., population 2,000; mercantile buildings, wood, 2½ and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 1 hose carriage, 1 hose reel; hose, linen good 1,200 ft. Chief engineer, C. F. Orris.

WATER SUPPLY—Source, springs; system, gravity; cap of tanks 1,650 bbls. (Waterworks contemplated.)

Middlebury, Addison Co., population 3,000; fire area 1,920 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 3 hose carriages, 1 hose cart, slamese couplings used; hose, cotton good 2,050 ft, inferior 200 ft, rubber good 700 ft, leather good 800 ft; value of fire department equipment \$10,000; value of 2 buildings occupied \$2,500; total membership 30, part paid; bell alarm. Chief engineer, Chas. A. Piper.

WATER SUPPLY—Source, river; system, pumping direct; pumping engines, dy cap 2,000,000 gals; 50 hydrants; pipe 7¼ miles, 10 to 4 in dia; valves 40; 2 meters; 135 taps; pressure, domestic 85, fire 125 pounds; works owned by city; cost to construct \$36,000; cost to date \$37,500; ann expenses \$600. Supt. A. H. Langeworth.

Montpelier, Washington Co., population 4,160; fire area 3,000 acres; mercantile buildings, brick,

3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 5 hose carriages; hose, cotton rubber lined good 3,700 ft; value of fire department equipment \$11,000; buildings rented; expenses of department for past year \$4,100; membership 195, paid part time 118; Gamewell electric alarm; 15 boxes, 2 strickers, 6 gongs; 5 fire companies. Chief engineer, O. D. Clark; chairman of fire and water com. G. W. Wing.

WATER SUPPLY—Source, Berlin pond; system gravity; reservoir cap 4,250,000 gals; 63 hydrants; pipe 18 miles, 2 to 24 in dia; 96 valves; 9 meters; 654 taps; pressure 120 to 145 pounds; waterworks owned by village; cost to construct \$53,000, cost to date \$128,085; ann expenses \$2,400. Supt. Joel Foster.

Morrisville, Lamoille Co., population 1,500; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage; value of buildings occupied \$500; total membership 66, paid full time. Chief engineer, E. W. Webster.

WATER SUPPLY—Source, springs; system, gravity; reservoir 40 ft x 12 ft; hydrants 12; miles of pipe 8; 25 valves; pressure, domestic 90, fire 90 pounds; waterworks owned by company. Supt. O. C. Warren.

Newport, Orleans Co., population 3,047; fire area 100 acres; buildings, wood, 2 stories; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages; hose, cotton good 2,000 ft; membership 30. Chief engineer, G. E. Prouty.

WATER SUPPLY—Source, Lake Megallowenog; system, direct pumping; pumping engines, dy cap 400,000 gals; 17 hydrants; pipe 2 miles, 6 to 8 in dia; pressure, domestic 100, fire 90 pounds; waterworks operated by Prouty and Miller; cost to construct \$10,000; ann expenses \$700. Supt. G. H. Prouty.

North Bennington, Bennington Co. Fire department—2 hand engines, 2 chemical extinguishers; hose, rubber good 1,800 ft.

WATER SUPPLY—Source, creek, 4 reservoirs, 1 cistern.

Northfield, Washington Co., population 2,628; fire area 1,000 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,800 ft, leather good 150 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,500; total ann expenses of department \$500; total membership 120, volunteers; bell alarm; 3 fire companies. Chief engineer, J. L. Moseley.

WATER SUPPLY—Source, springs; system, gravity; 12 reservoirs and river for fire protection; pipe 5 miles, ¾ to 4 in dia; pressure 300 ft head; ann expenses \$100. Supt. J. F. Severance.

North Troy, Orleans Co., population 500; fire area 3 to 400 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—6 chemical extinguishers, 2 hose carriages, 2 hose wagons; hose, cotton good 1,050 ft; total membership 40, volunteers; value of fire department equipment \$1,800; bell and whistle alarm; 2 fire companies. Trustees, J. W. Curries.

WATER SUPPLY—Source, brooks; system, gravity; reservoir cap 910,000 gals; 19 hydrants; pipe 5 miles, 10 to 3 in dia; 150 taps; pressure 50 to 75 pounds; works owned by company; cost to construct \$16,600; ann expenses \$160. Supt. Chandler Bailey.

Norwich, Windsor Co., population 500; fire area 1,000 acres; mercantile, wood and brick, 2 stories; private 1½ and 2 stories; wooden roofs permitted; state fireworks ordinance. No fire department—private parties are supplied with hose.

WATER SUPPLY—Source, hydrants. Pres. of Co., B. E. Lewin.

Pittsford, Rutland Co., population 2,000; fire area 2 miles; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 1 and 2

stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 500 ft; 1 hose company.

WATER SUPPLY—Source, not given; system, gravity 150 to 200 ft fall; hydrants 16; pipe 6 in. Supt. T. K. Bluebank.

Foruitney, Rutland Co., population 3,031; fire area 300 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 1,400 ft; value of buildings occupied \$500; total membership 20, volunteers. Chief engineer, James B. Carrigan.

WATER SUPPLY—Source, Crystal Lake; system, gravity; reservoir cap 36,000,000 gals; hydrants 40; pipe 5 miles, 10 to 4 in dia; 20 valves; 130 taps; pressure, domestic 120 pounds, fire same; works owned by village; cost to construct \$30,000; ann expenses \$300. Pres and supt, Thomas B. Clark.

Meadeboro'ugh, Bennington Co., population 2,000; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$200; total membership 22, volunteers; bell and whistle alarm. Chief, C. H. Faulkner.

WATER SUPPLY—Source, brook; system, gravity and pumping to reservoir; reservoir cap 250,000 gals; hydrants 8; pipe 1-4 miles, 6 and 4 in dia; 4 valves; 30 taps; pressure 80 pounds; works owned by city; cost to construct \$10,000. Supt. D. P. Carpenter.

Richford, Franklin Co., population 2,196; fire area 600 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton rubber lined good 2,000 ft; value of fire department \$2,000; value of buildings occupied \$1,500; total membership 50, volunteers; bell alarm; 2 fire companies. Chief engineer, L. D. Resoly; chairman of fire and water com, J. C. Baker.

WATER SUPPLY—Source, springs and brook; system, gravity; reservoir cap 1,000,000 gals; hydrants 20; pipe 6 miles, 4 to 10 in; 18 valves; 300 taps; pressure, 110 pounds; waterworks owned by city; cost to construct \$24,200; ann expenses \$100. Supt. H. C. Ayer.

Rutland, Rutland Co., population 14,000; mercantile buildings, brick and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 2 hose wagons; hose, cotton good 7,000 ft, inferior 500 ft; 4 horses; total ann expenses of department \$6,500; total membership 28, paid full time 7, paid part time 21; Gamewell alarm; street boxes 26. Chief engineer, K. K. Hannum.

WATER SUPPLY—Source, Mendon river; system, gravity; reservoir, cap 7,000,000 gals; hydrants 118; pipe 40 3-4 miles, 2 to 16 in; taps 2,000; 305 valves; pressure, domestic 55 to 65 pounds, fire same; waterworks owned by city; expenses of construction to date \$210,000; ann expenses \$6,000. Supt. J. M. Davis.

St. Albans, Franklin Co., population 7,771. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber 400 ft, leather good 1,700 ft; total membership 40, paid.*

WATER SUPPLY—Source, mountain brooks and springs; system, gravity; reservoir, cap 250,000,000 gals; hydrants 75; pipe 25 miles, 3 to 16 in; 100 valves; pressure 46 to 145 pounds; waterworks owned by city; original cost to construct \$250,000, expenses of construction to date \$300,000; ann expenses \$5,000. Supt. H. A. Warren.

St. Johnsbury, Caledonia Co., population of township about 7,000; fire area 1,000 acres; mercantile buildings, wood and brick, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 4,000 ft, poor 1,500 ft; value of fire department equipment \$7,000; value of 4 buildings occupied \$3,500; rent \$200; total ann expenses of department \$3,500; total membership 147, volunteers; Gamewell alarm; 12 street boxes. Chief engineer, F. H. Underwood.

WATER SUPPLY—Source, Passumpsic river; system, direct pumping; pumping engines, dy cap 3,000,000 gals; 80 hydrants; pipe 6 miles, 4 to 12 in dia; 35 valves; 300 taps; pressure, domestic 80, fire 120 pounds; waterworks owned by village; cost to construct to date \$38,000; cost to date \$160,000; ann expenses \$4,000. Supt. R. G. Cheney.

South Royalton, Windsor Co., population 1,000; fire area 150 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; stories have tin roofs; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, linen good 1,200 ft; value of fire department equipment \$500; value of buildings occupied \$250; total ann expenses of department \$500; total membership volunteers; bell alarm. Chief engineer, George H. Manchester; chairman of fire and water com, J. O. Ballknapp.

WATER SUPPLY—Source, springs.*

Springfield, Windsor Co., population 1,588; fire area 1 sq mile; mercantile buildings, wood and brick, 3 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, 2 hose couplings used, 7 force pumps in mills; hose, cotton good 2,500 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses of department \$603.80; total membership 25, paid; bell and whistle alarm. Chief engineer, F. A. Cook.

WATER SUPPLY—Source, springs; system, gravity; pipe 1 mile, 1 in dia; waterworks owned by company; cost to construct \$2,000. Village clerk, K. C. Burke.

Swanton, Franklin Co., population 3,331; buildings, brick and wood, 1 to 3 stories; tin roofs used; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, linen good 2,000 ft, cotton good 300 ft; total membership 32, volunteers; bell alarm. Chief engineer, H. A. Gregg.

WATER SUPPLY—Source, Missisquoi river; system, direct pumping; pumping engines, dy cap 1,000,000 gals; 25 hydrants; pipe 3 miles; valves; pressure, domestic 45, fire 110 pounds; waterworks owned by town; cost to construct \$20,000; ann expenses \$700. Pres, H. A. Bent, supt. D. G. Furman.*

Vergennes, Addison Co., population 1,773; fire area 600 acres; mercantile buildings, stone and brick, 3 and 4 stories; private, wood, brick and stone, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 5 hose carriages; hose, cotton good 2,150 ft, leather 300 ft; value of fire department equipment \$3,000; value of 3 buildings occupied \$4,000; total ann expenses of department \$500; total membership 82, volunteers; bell, whistle and electric alarm. Chief engineer, N. J. McCuen.

WATER SUPPLY—Source, Otter creek; system, direct pumping; 2 water power pumps, dy cap 150,000 gals; 35 hydrants; pipe 7½ miles, 6 to 4 in dia; 13 valves; 350 taps; pressure, domestic 80, fire 150 pounds; waterworks owned by city; cost to construct \$75,000; ann expenses \$800. Supt. C. A. Hoffnagle.

Waterbury, Washington Co., population 2,232; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, leather good 1,300 ft; total membership 80, volunteers. Chief engineer, Edward Farrar.

WATER SUPPLY—Source, springs, 15 cisterns; system, gravity; 2 hydrants; pipe 5 miles; pressure 65 pounds; waterworks owned by Warren & Somerville. Supt. C. C. Warren.*

Wells River, Orange Co., population 500; mercantile buildings, wood, 1 to 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 300 ft, cotton good 200 ft; value of fire department equipment \$500; value of buildings occupied \$300; total membership 3. Chief engineer, W. M. Brock.

WATER SUPPLY—Source, Wells river, cisterns, wells and springs.

West Randolph, Orange Co., population 1,000; fire area 640 acres; mercantile buildings.

brick, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, extension ladders; hose, cotton rubber lined good 1,100 ft., leather good 500 ft., inferior 300 ft.; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total ann. expenses of department \$400; total membership 34, volunteers; bell and steam whistle alarm. Chief engineer, F. E. DuBois.

WATER SUPPLY—Source, springs and brooks; system, gravity; reservoir cap 1,000,000 gals; 39 hydrants; pipe 10 miles, 4 to 10 in dia; 20 valves; 300 taps; pressure 105 pounds; waterworks owned by village; cost to construct \$22,000. Supt, L. Richmond.

White River Junction, Windsor Co., population 2,000; fire area 8 miles; mercantile buildings, wood and brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose wagon; hose, cotton good 2,500 ft.; value of fire department equipment \$5,000; value of buildings occupied \$1,500; total ann. expenses of department \$400; total membership 30, paid part time. Chief engineer, C. C. Bogle.

Wilmington, Windham Co., population 500; fire area 150 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 1,000 ft., cotton good 1,500 ft., leather good 300 ft.; value of fire department equipment \$1,500; value of buildings occupied \$300; total membership 30, volunteers; bell alarm. Chief engineer, J. Henry Kidder.

WATER SUPPLY—Source, Durdfield river and springs.

Windsor, Windsor Co., population 1,846; mercantile buildings, wood and brick 2½ stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine (not used), 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,100 ft.; total membership 24, volunteers; 2 hose companies. Chief, S. A. Reed.

WATER SUPPLY—Source, Dudley brook; system, gravity; reservoir cap 5,000,000 gals; 41 hydrants; pipe 4½ miles, main 8 in; 33 valves; 200 taps; pressure 60 to 110 pounds; works owned by village; cost to construct \$34,804.88. Supt, H. D. Stone.

Winooski, Chittenden Co., population 3,659; buildings, wood and brick, 2 and 3 stories. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, linen good 800 ft., inferior 600 ft., rubber good 500 ft.; value of fire department equipment \$7,000; total ann. expenses of department \$6,000; total membership 45, paid part time 2; bell alarm. Chief engineer, W. E. Chambers.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 4,000,000 gals; 25 hydrants; pipe 6 miles, 8 to 4 in dia; valves 8; meters 10; 410 taps; pressure, domestic 10 to 45, fire 110 pounds; waterworks owned by company; cost to construct \$25,000; cost to date \$50,000. Engineer, G. D. Nash.

Abingdon, Washington Co., population 1,674; fire area 480 acres; mercantile buildings, brick, 30 ft.; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, rubber good 900 ft.; value of fire department equipment \$750; total membership 20, volunteers; bell alarm. Chief, J. E. Deater.

WATER SUPPLY—Source, spring; system, pumping to reservoir, cap 575,000 gals; pumping engines, cap 12,000 gals per hour; 19 hydrants; pipe 5 miles, 6 to 2 in dia; 14 valves; 1 meter; 100 taps; pressure 67 pounds; works owned by company; cost to construct \$28,000; cost to date \$29,500; ann. expenses \$1,000. Supt, T. L. Pickle.

Alexandria, Alexandria Co., population estimated 17,000; fire area 600 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 6 ladders; value of fire department equipment \$18,000; value of 5 buildings occupied \$8,500; total ann. expenses \$7,000; total membership 200, full paid 7; bell and telephone alarm. Chief engineer, Edgar Wakefield.

Wolecott, Lamolle Co., population 1,150; buildings, wood, 2 and 3 stories. Fire department—1 hand engine, 1 hose carriage; hose, linen good 400 ft., leather inferior 50 ft. Chief engineer, W. O. Stratton.

WATER SUPPLY—Source, Lamolle river; #

Woodstock, Windsor Co., population 2,545; buildings, wood, stone and brick, 1½ and 2 stories; wooden roofs permitted. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton rubber lined good 1,500 ft.; value of fire department equipment \$2,500; total ann. expenses of department \$200; total membership 75, paid; bell alarm. Chief engineer, Wm. Reed.

WATER SUPPLY—Source, springs and brooks; system, gravity; reservoir cap 4,000,000 gals; hydrants 37; pipe 8 miles, 8 to 4 in; taps 257; valves 27; pressure, domestic 114, fire 114 pounds; waterworks owned by company; original cost to construct \$40,000; ann. expenses \$500. Supt, Frank W. Wilder.

Places having a population of 1,000 and upward that have no fire protection: Alburgh, Grand Isle Co., population 1,390; Bamel, Grand Isle Co., population 4,023; Berkshire, Franklin Co., population 1,421; Berlin, Washington Co., population 1,514; Bridgewater, Windsor Co., population 1,124; Bridgeport, Addison Co., population 1,018; Calais, Washington Co., population 1,082; Cambridge, Lamolle Co., population 1,689; Castleton, Rutland Co., population 2,398; Cavendish, Windsor Co., population 1,172; Charlotte, Chittenden Co., population 1,240; Concord, Essex Co., population 1,425; Corinth, Orange Co., population 1,027; Craftsbury, Orleans Co., population 1,271; Danville, Caledonia Co., population 1,784; Dorset, Bennington Co., population 1,690; Essex, Chittenden Co., population 2,013; Fairfax, Franklin Co., population 1,523; Ferrisburgh, Addison Co., population 1,501; Franklin, Franklin Co., population 1,300; Georgia, Franklin Co., population 1,282; Groton, Caledonia Co., population 1,040; Hartford, Windsor Co., population 3,740; Hartland, Windsor Co., population 1,393; Highgate, Franklin Co., population 1,853; Jamaica, Windham Co., population 1,074; Jericho, Chittenden Co., population 1,461; Lincoln, Addison Co., population 1,255; Londonderry, Windham Co., population 1,010; Lowell, Orleans Co., population 1,178; Lunenburg, Essex Co., population 1,019; Marshfield, Washington Co., population 1,121; Milton, Chittenden Co., population 1,585; Mount Holly, Rutland Co., population 1,214; New Haven, Addison Co., population 1,224; Orwell, Addison Co., population 1,285; Pawlett, Rutland Co., population 1,475; Paunsa, Bennington Co., population 1,919; Proctor, Rutland Co., population 1,758; Richmond, Chittenden Co., population 1,115; Rochester, Windsor Co., population 1,257; Rockingham, Windham Co., population 4,579; Shaftesbury, Bennington Co., population 1,652; Sheldon, Franklin Co., population 1,365; Underhill, Chittenden Co., population 1,301; Wallingford, Rutland Co., population 1,733; Weathersfield, Windsor Co., population 1,174; Westford, Chittenden Co., population 1,033; Westminister, Windham Co., population 1,268; Whitingham, Windham Co., population 1,191.

ted; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose wagons, 1 supply wagon; hose, cotton good 3,200 ft.; 8 horses, value \$1,400; value of fire department equipment \$18,000; value of 5 buildings occupied \$8,500; total ann. expenses \$7,000; total membership 200, full paid 7; bell and telephone alarm. Chief engineer, Edgar Wakefield.

WATER SUPPLY—Source, Cameron run; system, pumping to reservoir; 2 reservoirs; steam pumping engines; 115 hydrants; pipe 15 miles, 4 to 20 in dia; pressure 60 to 75 pounds. Supt, F. I. Power.

Ashland, Hanover Co., population estimated 950; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 6 ladders; value of fire department equipment \$18,000; value of 5 buildings occupied \$8,500; total ann. expenses \$7,000; total membership 200, full paid 7; bell and telephone alarm. Chief engineer, Edgar Wakefield.

VIRGINIA.

ment equipment \$550; value of buildings occupied \$160; total membership 37, volunteers; bell alarm. Chief engineer, E. L. O. Scott.

WATER SUPPLY—Source, wells. Mayor, J. W. Taylor.

Basic City, Augusta Co., population not given; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No fire department.

WATER SUPPLY—Source, spring; system, pumping to reservoir, cap 240,000 gals; pumping engines, dy cap 200,000 gals; pipe 1½ miles, 8 in dia; 2 valves; 15 taps; pressure 80 to 70 pounds; works owned by city. Supt, F. P. Shoemaker.

Bedford City, Bedford Co., population 2,897. Fire department—2 hose cars; hose, good 1,000 ft.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,000,000 gals; 55 hydrants; pipe 17 miles, 4 to 6 in dia; pressure 80 to 120 pounds; waterworks owned by city; cost to construct \$55,000; ann expenses \$350. Pres and supt, W. T. Fitzpatrick.

Berkley, Norfolk Co., population 5,500; fire area 1,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hose carriage, 2 jumpers; hose, cotton good 2,500 ft, rubber good 300 ft; 3 horses, value \$900; value of fire department equipment \$20,000; value of buildings occupied \$2,500; total ann expenses of department \$1,155; total membership 23, volunteers; bell alarm. Chief, Chas. W. Parks.

WATER SUPPLY—Source, driven wells; system, pumping to standpipe; standpipe cap 367,000 gals; pumping engines, dy cap 1,250,000 gals; 46 hydrants; pipe 4 miles, 10, 8 and 6 in; 50 taps; 71 valves; pressure 50 pounds; waterworks owned by company; original cost to construct \$75,000; ann expenses \$1,500. Supt, Charles Bliven.

Berryville, Clarke Co., population 1,800; mercantile buildings, brick, stone and wood 1½ to 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers, 1 hook and ladder truck and bucket brigade.

WATER SUPPLY—Source, impounding reservoir; system, gravity; reservoir cap 50,000 gals; 30 hydrants; pipe 4 miles, 4 to 6 in dia; pressure 85 to 90 pounds; works owned by company; cost to construct \$43,000. Pres, Geo. C. Thomas; secy and treas, Thos. S. Thompson. (Works not yet completed.)

Big Stone Gap, Wise Co., population 2,484.

WATER SUPPLY—Source, Powell's river; system, gravity; 30 hydrants; pipe 14 miles; 12 valves; 100 taps; pressure, domestic 180, fire 180 pounds; works in hands of receiver; cost to construct \$72,000; ann expenses \$1,000. Supt, J. L. Jennings.

Blackstone, Nottoway Co., population 1,500. Fire department—1 hook and ladder truck; hose, good 500 ft; total membership volunteers. Chief engineer, H. G. Chambitt.

WATER SUPPLY—Source, wells and cisterns.

Bristol, Washington Co. (Bristol, Tenn., P. O.), population 2,902; fire area 1½ miles sq; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 hook and ladder truck, 2 hose carriages, 1 hose wagon, tools; hose, cotton good 1,000 ft; total membership 40, volunteers; bell alarm. Chief, B. Pile.

WATER SUPPLY—Source not given; system, gravity.

Buchanan, Botetourt Co., population 5,867; mercantile buildings, brick and wood, 1 to 2½ stories; private, wood, 2 stories. Fire department not reported.

WATER SUPPLY—Source, James river; system, pumping to standpipe; standpipe cap 50,000 gals; pumping engines, dy cap 50,000 gals; 20 hydrants; pipe 1 3-4 miles; quality of water good; pressure, domestic 100, fire 130 pounds; works owned by company; cost to construct \$75,000. Secy and treas, J. M. Miller.

Buena Vista, Rockbridge Co., population 3,500; fire area 1,200 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of

fire investigated. Fire department—1 hose carriage; hose, cotton good 1,000 ft; 2 horses, value \$500; value of fire department equipment \$1,500; value of buildings occupied \$2,000; total ann expenses of department \$300; total membership 34, volunteers; bell alarm. Chief engineer, Thos. D. Baile.

WATER SUPPLY—Source, mountain streams; system, gravity; 2 reservoirs, cap 20,000 and 250,000 gals; stream cap 850,000 gals; 33 hydrants; pipe 13 miles, 1 to 8 in dia; 25 valves; pressure 90 pounds; waterworks owned by city; original cost to construct \$40,000; ann expenses \$350 to \$750. Supt, J. E. Meem.

Charlottesville, Albemarle Co., population 5,681; fire area 4 miles; mercantile buildings, brick, 3 stories; private, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 3 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kind, 2 hose wagons; hose, rubber good 2,500 ft; 4 horses; value of fire department equipment \$10,000; value of buildings occupied \$1,000; total ann expenses of department \$100; total membership 50, volunteers; bell alarm. Chief, T. I. Williams.

WATER SUPPLY—Source, surface water and springs; system, gravity; reservoir cap 128,000,000 gals; 97 hydrants; pipe 16 miles, 12 to 4 in dia; 39 valves; 850 taps; pressure, domestic 100 pounds, fire same; works owned by city; cost to construct \$115,000; ann expenses \$1,500. Supt, Ellis F. Harris.

Chase City, Mecklenburg Co., population about 1,100; fire area 15 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 hook and ladder companies, well equipped with ladders, buckets and hooks; membership 27, all volunteers.

WATER SUPPLY—Source, wells.

Chatham, Pittsylvania Co., population 757; fire area 1 mile in circumference; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. No fire department.

WATER SUPPLY—Source, springs; system, gravity; dy cap 200,000 gals; waterworks owned by town. Clerk, Chas. A. Holt.

Clifton Forge, Allegheny Co., population 4,000; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 800 ft; value of fire department equipment \$1,000; value of buildings occupied \$1,200; expenses for past year \$300; total membership 35, all volunteers; electric whistle alarm. Chief, J. H. Baker.

WATER SUPPLY—Source, Smith creek; system, pumping to reservoir, cap 300,000 gals; pumps, dy cap 400,000 gals; 225 hydrants; pipe 4 miles; pressure, domestic 20, fire 65 pounds; waterworks owned by company; cost to construct \$44,000, cost to date \$51,000; ann expenses \$2,000. Supt, Geo. N. Montgomery.

Covington, Allegheny Co., population 1,500; fire area 250 acres; mercantile buildings, wood and brick, 2 stories; private, brick and wood, 2 stories; fireworks ordinance. Fire department—2 hose carriages; hose, cotton rubber lined good 600 ft; 16 volunteer members. Chief, S. B. Kerr.

WATER SUPPLY—Source, spring, 2 miles north of town; system, gravity; reservoir cap 300,000 gals; pumping engines, dy cap 500,000 gals; 15 hydrants; pipe 6 miles, 3, 4, 6 in dia; 25 valves; 4 meters; 150 taps; pressure, domestic 60 pounds, fire same; works owned by company; cost to construct to date \$15,000; ann expenses \$500. Pres, C. M. Nettleton.

Culpepper, Culpepper Co., population 1,800. Fire department—1 hand engine, 1 hook and ladder truck; hose, 330 ft; value of fire department equipment \$400; total ann expenses of department \$225.

WATER SUPPLY—Source, wells and cisterns. Town clerk, W. J. Shotwell.

Danville, Pittsylvania Co., population 12,000; fire area 4 sq miles; mercantile buildings, brick, 2 to 4 stories; private, wood, brick and stone, 2 and 3 stories; wooden roofs permitted to some extent; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose car-

riages, 1 supply wagon; hose, cotton good 3,500 ft., poor 1,500 ft.; 6 horses, value \$1,400; value of fire department equipment \$10,000; value of buildings occupied \$5,000; total ann expenses of department \$6,000; total membership 21, paid full time 5, paid part time 16; telegraph alarm; 14 street boxes. Chief engineer, N. F. Reid.

WATER SUPPLY—Source, Dan river; system, pumping to reservoir and direct; reservoir cap 5,500,000 gals; pumping engines, dy cap one of 1,500,000 and one of 1,000,000 gals; 94 hydrants; pipe 12½ miles, 3 to 24 in dia; 828 meters; pressure 65 pounds; waterworks owned by city; ann expenses \$10,000. Supt. O. A. Ballou.

Farmville, Prince Edward Co., population 2,404; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 dozen buckets; hose, rubber good 700 ft; value of fire department equipment \$1,000; value of 2 buildings occupied \$3,600; total ann expenses of department \$500; membership 2, paid; bell alarm. (2 hose reels and hook and ladder contemplated.) Chief, Geo. Robeson.

WATER SUPPLY—Source, wells; 11 cisterns. Mayor, O. T. Wicker. (Works to be completed April 1895 will be built.)

Fredericksburg, Spotsylvania Co., population 4,528; mercantile buildings, brick, 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose reels; value of fire department equipment \$4,250; 1 building owned; total membership 33, volunteers. Chief, M. H. McCracken.

WATER SUPPLY—Source, Rappahannock river; system, pumping to reservoirs; supply reservoir cap 4,000,000 gals; receiving reservoir cap 4,500,000 gals; pumping engines, dy cap 400,000 gals; 64 hydrants; pipe 1½ miles, 2 to 8 in dia; 39 valves; 2 meters; pressure, domestic 56, fire 100 pounds; waterworks owned by city; cost to construct \$30,000; ann expenses \$3,500. Supt. S. J. Quinn.

Front Royal, Warren Co., population 1,500; fire area 75 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,700 ft; value of fire department equipment \$3,000; value of buildings \$2,000; total membership 80, volunteers; bell alarm. Foreman, W. P. King.

WATER SUPPLY—Source, mountain streams; system, gravity; reservoir cap 5,000,000 gals; hydrants 23; pipe about 6 miles, 10 to 4 in dia; 40 valves; 60 taps; pressure 125 to 130 pounds; works owned by company; cost \$29,000. Pres, H. L. Cook.

Glasgow, Rockbridge Co., population estimated 1,000.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 3,000,000 gals; 12 hydrants; pipe 5½ miles, 2 in dia; pressure, domestic 80 pounds; cost to construct \$15,000. Pres, F. Lee; secy, T. Williams.

Gordonsville, Orange Co., population 962; buildings, wood and brick, 2 stories; tin roofs; fireworks ordinance. Fire department—1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$700; value of buildings occupied \$200; total membership 25, volunteers; bell alarm. Chief engineer, R. H. Stratton.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 750,000 gals; hydrants 18; pipe 2 miles, 8 and 6 in dia; valves; pressure 50 pounds; works owned by city; cost to construct \$11,000; ann expenses \$280. Supt, W. H. Porter.

Goshen, Rockbridge Co. Fire department not reported.

WATER SUPPLY—Source, Mill creek; system, pumping to tank, cap 28,000 gals; pumping engines, dy cap 78,000 gals; 1 hydrant; pipe ¾ mile, 8 and 4 in dia; 3 valves; pressure, domestic 30, fire same pounds; waterworks owned by company; original cost to construct \$5,050; expenses of construction to date \$5,550; ann expenses \$500. Pres, Cal R. P. Chew.

Hampton, Elizabeth City Co., population 5,000; fire area 1 mile; buildings, brick and wood, 2 stories; wooden roofs not permitted in business

part of town; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft; 3 horses, value \$500; value of fire department equipment \$8,000; value of buildings occupied \$3,000; expenses for past year \$1,300; total membership 70, volunteers; electric alarm. Chief engineer, W. J. Weymouth.

WATER SUPPLY—Source, bay and 6 cisterns. Town clerk, L. L. Jones.

Harrisonburg, Rockington Co., population 2,792; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines (not used), 1 hook and ladder truck, 5 hose carts; hose, rubber good 2,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,000; total membership 200, volunteers; bell and whistle alarm.

WATER SUPPLY—Source, artesian wells; system, pumping direct and to reservoir; reservoir cap 1,000,000 gals; pumping engines, dy cap 144,000 gals; 36 hydrants; pipe 5 miles, 3 to 8 in dia; 19 valves; 4 meters; 300 taps; pressure 55 pounds; waterworks owned by city; cost to construct \$25,000; ann expenses \$1,400. Supt, W. H. Bowman.

Leesburg, Loudon Co., population 1,800; fire area 400 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 2 hose carriages, all kinds, ladders; hose, rubber 900 ft; value of fire department equipment \$600; total ann expenses of department \$425; total membership 48, volunteer members 24; bell alarm. Chief engineer, S. W. Morris.

WATER SUPPLY—Source, Rock springs; system, gravity; cisterns, hydrants; pipe 4 miles; waterworks owned by village; cost to construct \$18,000; ann expenses \$200. Pres, W. J. Harrison.

Lexington, Rockbridge Co., population 3,059; fire area 40 acres; buildings, brick, iron, stone and wood, 2 and 3 stories; metal and slate roofs; fireworks ordinance; causes of fire investigated. Fire department—59 private chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,000 ft, inferior 100 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,000; total ann expenses of department \$100; membership 35; bell alarm. Chief engineer, Chas. Pole.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 2,500,000 gals; 27 hydrants; pipe 6 miles, 4 to 3 in dia; 5 meters; pressure, domestic 60, fire 140 pounds; waterworks owned by town; cost to construct \$60,000; ann expenses \$600. Supt, Jos. B. Holmes.

Luray, Page Co., population 3,000; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. No fire department; fire ladders.

WATER SUPPLY—Source, wells and cisterns. (Waterworks contemplated.)

Lynchburg, Campbell Co., population 19,709; fire area 1,200 acres; mercantile buildings, brick, 3 to 5 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted in some localities; fireworks ordinance. Fire department—2 steam fire engines, 10 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 4 hose wagons; hose, cotton good 5,000 ft, inferior 600 ft; 13 horses, value \$2,600; value of fire department equipment \$27,748; value of buildings occupied \$10,000; total ann expenses of department \$20,000; total membership 29, paid full time; Gaineswell alarm; 32 street boxes. Chief, Alex. Thurman.

WATER SUPPLY—Source, James river; system, pumping to reservoirs; 2 reservoirs 4,000,000 and 4,500,000 gals each; pumping engines, dy cap 9,000,000 gals; 172 hydrants; pipe 22 miles, 4 to 18 in dia; 210 valves; meters 21; pressure 90 to 140 pounds; waterworks owned by city; cost to construct \$225,000; ann expenses \$10,000. Chairman of com, W. D. Adams; supt, J. B. Page.

Manchester, Chesterfield Co., population 12,000; fire area 500 acres; mercantile buildings, brick, iron, stone and wood, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 6 hand reels; hose, new 2,500 ft, inferior 800 ft; value of fire department equipment \$5,000.

value of building occupied \$5,000; total ann expenses of department \$2,000; total membership 26, paid part time 20, volunteers 6. Chief engineer, A. J. Gallagher.

WATER SUPPLY—Source, James river; system, pumping to standpipe, cap 123,000 gals; pumping engines, dy cap 1,750,000 gals; 67 hydrants; pipe 13 miles, 4 to 12 in dia; 48 valves; 10 meters; 687 taps; pressure 75 pounds; Edison pressure recording gauge; waterworks owned by company; cost to construct to date \$107,000. Pres, Wm. H. White; supt, H. S. Bradley.

Marion Smythe Co., population 3,500; fire area 75 miles; build g, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 300 ft, rubber good 300 ft, leather good 300 ft; value of equipment \$1,200; membership 24, volunteers; bell alarm. Chief, E. J. Hailer.

WATER SUPPLY—Source, springs; system, gravity; 16 hydrants; pipe 3½ miles, 6 in dia; 8 valves; pressure 60 pounds; waterworks owned by town; cost to construct \$12,000; ann expenses \$100. Supt, W. T. Dickey.

Martinsville, Henry Co., population 3,000; fire area 364 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department equipment about to be contracted for. Chief, Col. O. B. Bryant.

WATER SUPPLY—Source, Jones' creek; system, pumping to standpipe; standpipe cap 200,000 gals; dy cap 500,000 gals; 32 hydrants; pipe 4 miles, 8 to 4 in dia; 4 valves; pressure, domestic 120, fire 120 pounds; waterworks owned by city; original cost to construct \$25,000. Pres, W. R. Nunn.

Middletown, Frederick Co., population 500; fire area 100 acres; mercantile buildings, wood, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, hooks and ladders; value of fire department equipment \$75; value of buildings occupied \$75; total membership 20, volunteers. Capt, John W. Wiley.

Newport News, Warwick Co., population 8,000; fire area 200 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 5 hose carriages, all kinds; hose, rubber good 2,400 ft, inferior 100 ft; 2 hoses, value \$500; value of fire department equipment \$8,000; value of buildings occupied \$800; total ann expenses of department \$1,500; total membership 110, paid full time 1, paid part time 3, volunteer members 59; electric alarm system; 10 street boxes. Chief engineer, J. E. Williams.

WATER SUPPLY—Source, 2 creeks supplied by springs; system, pumping from reservoir to standpipe, also direct; reservoir cap 370,000,000 gals; standpipe cap 160,000 gals; pumping engines, dy cap 3,000,000 gals; 150 hydrants; pipe 24 miles, 6 to 12, main 18 in dia; 125 valves; 6 meters; quality of water pure; pressure, domestic 50, fire 50 to 100 pounds; waterworks owned by company. Pres of com, C. Borecutt; supt, L. B. Manville.

Norfolk, Norfolk Co., population about 40,000; fire area 3,000 acres; mercantile buildings, brick, 2 to 6 stories; private, brick and wood, 2 to 4 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—5 new steam fire engines (3 old), 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages, 1 hose wagon; hose, rubber, good 3,500 ft, inferior 300 ft; 17 hoses, value \$4,200; value of fire department equipment \$36,000; value of buildings occupied \$20,000; total ann expenses of department \$22,000; total membership 78, paid full time 21, paid part time 39, volunteers 16; Gamewell alarm; 22 street boxes; 4 fire companies. Chief, Thos. Kevill.

WATER SUPPLY—Source, lakes; system, direct pumping; pumping engines, dy cap 25,000,000 gals; cap of settling reservoir 10,000,000 gals; 148 hydrants; pipe 35 miles, 4 to 24 in dia; 350 valves; 120 meters; pressure, domestic 35, fire 60 pounds; waterworks owned by city; cost to construct \$500,000, to date \$682,500; ann expenses \$24,000. Supt, Herbert L. Smith.

Old Point and Fortress Monroe, Elizabeth Co. Fire department—4 hose carriages; hose, rubber good 2,000 ft; total membership 300, volunteers.

WATER SUPPLY—Source, drive wells points; system, pumping to tank, cap 58,000 gals; pumping engines, dy cap 200,000 gals; 40 hydrants; pipe 11-4 miles, 6 in dia; pressure, fire 25 pounds; waterworks owned by U. S. Govt; cost to construct to date \$45,000. Supt, Capt. Jno. W. Pullman.

Petersburg, Dinwiddie Co., population 25,000; fire area 6,700 acres; mercantile buildings, brick and wood, 3 and 4 stories; private, wood and brick, 3 and 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages, 1 hose wagon, 1 hose, rubber good 2,000 ft, cotton good 1,900 ft; 8 hoses, value \$1,600; value of fire department equipment \$32,000; value of buildings occupied \$20,000; ann expenses \$13,410; total membership 24, paid full time 12, part time 12; Gamewell alarm; 21 street boxes. Chief engineer, R. V. Farley.

WATER SUPPLY—Source, brook; system, pumping to high reservoir; upper reservoir cap 5,338,950 gals; collecting reservoir cap 23,400,000 gals; pumping engines, dy cap 2,400,000 gals; 125 hydrants; pipe 12.04 miles, 4 to 15 in; 1,000 taps; 35 valves; pressure 15 to 40 pounds; waterworks owned by city; original cost to construct \$150,000; expenses of construction to date \$200,000; ann expenses \$9,000. Supt, Edward Whyte. (Improvements to cost \$80,000 will be made.)

Portsmouth, Norfolk Co., population 13,268. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 3,000 ft; 6 hoses; total membership 208, paid full time 3, volunteers 200; bell alarm. Chief engineer, W. T. Robinson.

WATER SUPPLY—Source, Lake Kilby; system, pumping to reservoir, cap 1,000,000 gals; pumping engines, dy cap 2,000,000 gals; 101 hydrants; pipe 40 miles, 4 to 14 in dia; 46 valves; 21 meters; pressure 35 to 40 pounds; waterworks owned by company. Pres, J. R. Plante; supt, G. H. Coleman.

Pulaski City, Pulaski Co., population 4,000; fire area 1,000 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; tin roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages, 2 hose wagons; hose, inferior 500 ft, linen good 650 ft; value of fire department equipment \$1,000; value of buildings occupied \$2,000; total ann expenses of department \$575; total membership 23, volunteers; bell alarm. Chief engineer, M. F. Kunkle; chairman of fire com, Ch. Teaney.

WATER SUPPLY—Source, 4 artesian wells; system, pumping to standpipe; standpipe cap 253,000 gals; pumping engines, dy cap 1,000,000 gals; 60 hydrants; pipe 10 miles, 4 to 12 in dia; 35 valves; 100 meters; 118 taps; pressure, domestic 90 pounds, fire same; waterworks owned by company; original cost to construct \$50,000. Supt, F. W. Halsey.

Radford, Montgomery Co., population 5,000; fire area 4,000 acres; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton new 500 ft; value of fire department equipment \$1,000; membership 25, volunteers. Chief, W. J. Kenedine.

WATER SUPPLY—Source, Connelly's branch of New river; system, pumping to reservoir, thence to standpipe; standpipe cap 183,589 gals; pumping engines, dy cap 1,000,000 gals; pipe 7½ miles, 12 to 4 in dia; works owned by company.

Richlands, Taswell Co., population 700; fire area 250 acres; buildings, stone, brick and wood, 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, axes, buckets, etc; hose, cotton good 400 ft; value of fire department equipment \$300; value of buildings occupied \$400; ann expenses \$50; membership 25, volunteers. Chief, Jerry Cotter.

WATER SUPPLY—Source, Clinch river; system, pumping to standpipe, cap 280,000 gals; pumping

engines, dy cap 1,000,000 gals; 35 hydrants; pipe 3 1-8 miles, 16 to 4 in dia; 20 valves; 105 taps; pressure, domestic 80, fire 125 pounds; works owned by company; cost to construct \$45,000; ann expenses \$1,000. Pres, G. R. Dunn; supt, E. Edlison.

Richmond, Henrico Co., population 100,000; fire area 21,000 acres; mercantile buildings, brick, stone and wood, 2 to 6 stories; private, brick and wood, 2 to 4 stories; wooden roofs not permitted; fireworks ordinance. Fire department—9 steam fire engines, 3 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 2 hose carriages, 8 hose wagons, 3 supply wagons; hose, cotton good 18,000 ft; 40 horses, value \$5,000; value of fire department equipment \$75,000; value of buildings occupied \$90,000; total ann expenses of department \$77,000; total membership 131, paid full time 43, paid part 109; Gamewell alarm; 131 street boxes. Chief engineer, W. G. Puller.

WATER SUPPLY—Source, James river; system, pumping to reservoir; reservoir cap 52,000,000 gals; pumping engines, dy cap 24,000,000 gals; 515 hydrants; pipe 78 1/2 miles, 2 to 30 in dia; 165 meters; pressure average 30 to 43 pounds; fire engine service; waterworks owned by city; cost to construct \$2,000,000; ann expenses \$35,892. Supt, Chas. E. Bolling.

Roanoke, Roanoke Co., population 22,000; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, all kinds, 3 hose wagons, siamese couplings; hose, rubber good 6,000 ft, inferior 300 ft; 8 horses, value \$1,500; value of fire department equipment \$20,000 including alarm; value of buildings occupied \$19,000; total ann expenses of department \$5,000; total membership 184, paid full time 3, volunteers 131; Gamewell alarm; 81 street boxes. Chief engineer, J. J. Knepp.

WATER SUPPLY—Source, springs; system, pumping direct to and reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 4,000,000 gals; 112 hydrants; pipe 48.4 miles, 4 to 16 in dia; 300 valves; 284 meters; 3,048 taps; pressure, domestic 45 to 90, fire same pounds; waterworks owned by company; cost to construct \$425,000; ann expenses \$22,000. Pres, F. J. Kimball; manager and engineer, J. C. Hawn.

Salem, Roanoke Co., population 3,500; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs condemned; fireworks ordinance. Fire department—1 hand engine, 2 hose carriages, hooks, ladders and axes; hose, cotton good 500 ft, inferior 500 ft; leather good 1,800 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,200; total membership 320, paid part time 8; bell alarm. Chief, T. R. Boon.

WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 250,000 gals; pumping engines, dy cap 800,000 gals; 60 hydrants; pipe 9 miles; 2 meters; pressure 45 pounds; waterworks owned by town; cost to construct \$33,000; ann expenses \$567.70. Supt, T. L. Pickle.

Smithville, Charlotte Co., population 1,000; fire area 100 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—hooks, ladders and buckets; value of fire department equipment \$100. B. P. Eggleston.

WATER SUPPLY—Source, wells. Town clerk, B. R. Eggleston.

South Boston, Halifax Co., population 1,789; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 stationary steam fire engine at river, 100 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total membership 18, paid part time 8, volunteers 8; 1 hook and ladder company, 2 hose companies. Chief, E. N. Hardy.

WATER SUPPLY—Source, river and wells; system, pumping to standpipe; pumping engines, dy cap 250,000 gals; 13 double hydrants; 8 valves; pressure 80 pounds; cost to construct \$12,000.

Mayor, E. L. Evans; town clerk, R. S. Barbour.
Stanton, Augusta Co., population 12,000; fire area 70 acres; buildings, wood and brick, 3 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hose wagon with ladders, 1 hose reel; hose, rubber good 2,400 ft; value of fire department equipment \$2,000; value of buildings occupied \$4,000; total membership 18, paid full time; Gamewell alarm; 23 street boxes. Chief engineer, Thomas Kiolighan.

WATER SUPPLY—Source, springs; system, pumping direct to reservoir; reservoir cap 2,500,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 61; pipe 13 1/2 miles, 3 to 12 in dia; 32 valves; 4 meters; pressure 40 to 110 pounds; waterworks owned by city; cost to construct \$90,000; ann expenses \$4,000. Supt, J. A. Moore.

Suffolk, Nansemond Co., population 4,962; fire area 700 acres; mercantile buildings, brick, 1 and 2 stories; private, brick and wood, 2 stories; wooden roofs permitted in some parts of town; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 2,000 ft, cotton good 500 ft; 3 horses, value \$800; value of fire department equipment \$7,200; value of buildings occupied \$1,500; total ann expenses of department \$1,200; total membership 44, paid part time 4, volunteers 40; electric alarm; 11 street boxes. Chief, John F. Lotzla.

WATER SUPPLY—Source, lake; system, pump to standpipe, cap 100,000 gals; pumping engines, dy cap 4,000,000 gals; 42 hydrants; pipe 8 miles, 6 to 16 in dia; 12 meters. Supt, G. H. Coleman.

University of Va., Albemarle Co., population 600; fire area 40 acres; public buildings, brick, 2 and 4 stories; private, brick, 2 stories; wooden roofs not permitted near public buildings. Fire department—1 chemical extinguisher, 2 hose carriages, 1 extension ladder; hose, rubber good 500 ft; total membership 15, volunteers; Charlottesville department renders assistance when necessary; bell alarm. Chief, F. P. Dunnington.

WATER SUPPLY (see Charlottesville)—6 miles of pipe; pressure 60 pounds.

Vinton, Roanoke Co., population 1,057; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department not reported.

WATER SUPPLY—Source, springs and subsiding reservoir; system, pumping to standpipe, standpipe cap 300,000 gals; pumping engines, dy cap 500,000 gals; hydrants; pressure, domestic 125, fire 150 pounds; works owned by company; cost to construct \$32,000. Pres, W. S. Goech; supt, C. O. Dunn.

Warrenton, Fauquier Co., population 1,346; fire area 500 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; slate and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages, hand grenades; hose, cotton good 500 ft, rubber inferior 200 ft; value of equipment \$800; total membership 24, volunteers; bell alarm. Chief engineer, D. P. Wood.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoir 1,250,000 gals; 20 hydrants; pipe 4 1/2 miles, 8 in dia; valves 12; cost to construct \$23,000. Supt, J. W. Shirk.

West Point, King William Co., population 3,500; fire area 150 acres; buildings, wood, 2 stories; tin roofs. Fire department, property of R. R. company—1 steam fire engine, 1 chemical engine on wheels, 1 chemical extinguisher, 2 hose carriages; hose, linen good 4,000 ft, rubber good 150 ft; total membership 13, full paid; electric alarm. Chief, V. L. Hawkins.

WATER SUPPLY—Source, artesian wells and river. (Waterworks are contemplated.)

Winchester, Frederick Co., population 5,196; fire area 1 sq mile; buildings, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 3 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 12 hose carriages; hose, cotton good 1,000 ft, rubber good 3,000 ft, inferior 2,000 ft; leather inferior 1,500 ft; value of fire department equipment \$10,000; value of buildings occupied \$9,000; total ann expenses of department \$1,000; total membership 400, volunteers; bell alarm; 4

the companies. Chief engineer, Jas. W. Barr. **WATER SUPPLY**—Source, springs; system, gravity; 50 hydrants; pipe 8 miles; waterworks owned by town; ann expenses \$500. Supt, John H. Nulton.

Woodstock, Shenandoah Co., population 1,100; fire area 100 acres; buildings, brick and wood, 2 and 3 stories; shingle, tin and slate roofs used; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 250 ft, inferior 100 ft; total membership 50, volunteers.

WATER SUPPLY—Source, wells and cisterns.

Wytheville, Wythe Co., population 4,000;

buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 700 ft, leather good 800 ft; value of fire department equipment \$3,000; total ann expenses of department \$500; total membership 20, paid full time; bell alarm. Chief engineer, W. H. Neighbors.

WATER SUPPLY—Source, springs; system, gravity and pumping to reservoir; reservoir cap, 1,000,000 gals; pumping engines, 4; cap 400,000 gals; 48 hydrants; pipe $3\frac{1}{2}$ miles, 4 and 6 in dia; 11 valves 3 meters; pressure, domestic 85, fire 110 pounds; waterworks owned by city; cost to construct \$20,000. Supt, C. G. Oewel.

WASHINGTON.

Aberdeen, Chehalis Co., population 1,700; fire area $1\frac{1}{2}$ sq miles; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 600 ft, rubber good 1,600 ft, inferior 500 ft; value of fire department equipment \$4,600; value of buildings \$1,500; total ann expenses of department \$150; total membership 45, volunteers; telephone alarm; 3 fire companies, 1 hook and ladder company, 2 hose companies. Chief engineer, L. L. Maley.

WATER SUPPLY—Source, Spring brook; system, pumping direct; pumping engines, 4; cap 2,000,000 gals; 26 hydrants; pipe 5 miles, $1\frac{1}{2}$ to 12 in dia; 14 valves; pressure, domestic 50, fire 110 pounds; works owned by city; cost to construct \$60,000; ann expenses \$1,000. Supt, William Austin.

Anacortes, Skagit Co., population 1,500; fire area 200 acres; mercantile buildings, stone, brick and wood, 2 to 4 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, cotton good 1,850 ft, inferior 120 ft; value of fire department equipment \$8,000; value of buildings occupied \$12,000; total ann expenses of department \$1,250; total membership 54, volunteers; bell and telephone alarm. Chief engineer, P. Williams.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 305,300 gals; 7 hydrants; pipe $4\frac{1}{2}$ miles, 9 to 14 in dia; 9 valves; pressure 90 pounds; works owned by Oregon Improvement Co., cost to construct \$50,000. Supt, J. C. Philips.

Avon, Skagit Co., population 300; mercantile buildings, wood, 1 and 2 stories; private, wood, 1, $1\frac{1}{2}$ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder company with apparatus, value about \$50.*

WATER SUPPLY—Source, wells and river.*

Ballard, King Co., population 1,173; mercantile buildings, brick and wood, 1 to 3 stories; private, brick and wood, 2 and $2\frac{1}{2}$ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hose reels, 2 ladders; 1,500 ft of rubber hose; 50 volunteer members; electric bell alarm. Chief, Wm. L. Lake.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 500,000 gals; pipe 4 miles, 6 in dia; quality of water good; pressure 110 pounds; works owned by company; cost to construct \$60,000. Pres, W. R. Ballard; secy, C. DeCosta.*

Blaine, Whatcom Co., population 1,563; mercantile buildings, brick and wood, 20 to 40 ft; private, wood, 18 to 30 ft; wooden roofs permitted. Fire department—2 hose carriages; hose, rubber good 1,000 ft; value of equipment \$1,200; 32 volunteer members; bell alarm. Chief, Frank McCail.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 10,000,000 gals; hydrants 20; pipe 5 miles, 6 to 22 in dia; 10 valves; 50 taps; pressure average 40 pounds; works owned by company; cost to construct \$56,000; ann expenses \$600. Supt, J. S. Crelley.

Buckley, Pierce Co., Fire department—1 hose carriage; hose, good 750 ft; volunteer members 25; 1 hose company.

WATER SUPPLY—Source, not given; system, pumping to tank; tank cap 40,000 gals; pipe 6 and 4 in; pressure, domestic 25, fire 120 pounds.

Centralia, Lewis Co., population 2,028; fire area 1 sq mile; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine (not used), 3 hose carriages, 4 ladders, 25 buckets, 1 drag rope and hook; hose, cotton good 1,600 ft, rubber good 50 ft; value of fire department equipment \$7,000; value of buildings occupied \$1,000; total ann expenses of department \$1,000; bell alarm; 3 fire companies. Chief engineer, J. H. Whitney. (Hook and ladder truck in contemplation.*

WATER SUPPLY—Source, well on bank of Skookum Chook river; system, pump to reservoir; reservoir cap 1,250,000 gals; pumping engines, 4; cap 750,000 gals; 28 hydrants; pipe 6.8-10 miles, 10 to 4 in dia; 35 valves; 3 meters; 118 taps; pressure 100 pounds; works owned by company; cost to construct \$46,000; ann expenses \$1,500. Supt, A. A. Miller.

Chehalis, Lewis Co., population 2,600; fire area 200 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,400 ft, poor 100 ft; value of fire department equipment \$4,100; value of buildings occupied \$1,300; total ann expenses of department \$500; total membership 58, volunteers; bell alarm; 2 fire companies. Chief engineer, F. M. Lynch.

WATER SUPPLY—Source, river; system, pumping to reservoir, cap 625,000 gals; pumping engines, cap 40,000 gals per hour; 29 hydrants; pipe $8\frac{1}{2}$ miles, 8 to 4 in dia; 19 valves; pressure 75 to 85 ft; works owned by company; cost to construct \$54,000; ann expenses \$2,200. Pres, J. Clarish; supt, A. D. Sheldon.

Cheney, Spokane Co., population 647; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, hose and ladders; hose, cotton good 800 ft; value of fire department equipment \$1,000; value of buildings occupied \$3,500; total ann expenses of department \$850; total membership 28, volunteers. Chief engineer, Ralph Hendricka.*

WATER SUPPLY—Source, lake; system, pumping to reservoir; reservoir cap 300,000 gals; pumping engines, 4; cap 12,000 gals per hour; 10 hydrants; pipe 5 miles, $2\frac{1}{2}$ to 8 in dia; 10 valves; pressure, domestic 80 pounds, fire same; works owned by company; cost to construct \$30,000, to date \$50,000; ann expenses \$2,500. Supt, S. G. Grubb.

Collfax, Whitman Co., population 2,500; fire area 22 acres; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 fuel cart; hose, rubber good 1,850 ft; value of fire department equipment \$5,800; value of buildings occupied \$3,250; total ann expenses of department \$440; total membership 80, volunteer members; bell alarm. Chief engineer, John Hutchison.

WATER SUPPLY—Source, well near river; system, pumping to reservoir; reservoir cap 550,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 47; pipe 4.98 miles, 10 to 4 in; tape 153; valves 40; pressure 40 to 90 pounds; waterworks owned by city; cost to construct \$53,000; ann expenses \$2,880. Supt, W. J. Roberts.

Coupeville, Island Co., population 513; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance.*

WATER SUPPLY—Source, springs; system, pumping to standpipe, cap 35,000 gals; pipe 1½ miles, 3 in dia; works owned by company; cost to construct \$5,000; ann expenses \$300. Pres, M. G. Gaston.*

Dayton, Columbia Co., population 2,500; fire area 640 acres; buildings, brick and wood, 1½ and 2 stories. Fire department—1 hook and ladder truck, 7 hose carriages; hose, rubber good 2,000 ft, inferior 1,000 ft, cotton good 2,000 ft; value of fire department equipment \$6,000; total ann expenses of department \$200; total membership 139, volunteers; bell alarm. Chief engineer, John Carr.

WATER SUPPLY—Source, springs; system, gravity; 8 hydrants; pipe 5 1-4 miles, 1 1-2 to 8 in dia; 32 valves; pressure 25 pounds; cost to construct \$25,000; ann expenses \$1,800. Supt, C. A. DeSausure.*

Elleensburg, Kittitas Co., population 3,000; fire area 600 acres; mercantile buildings, brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon, 1 fuel cart, swinging hames, etc.; hose, rubber good 2,500 ft, inferior 500 ft, cotton good 1,000 ft; 2 horses, value \$500; value of fire department equipment \$11,600; value of buildings occupied \$2,000; total ann expenses of department \$3,000; total membership 40, paid full time 3, volunteer members 40; bell alarm (electric contemplated). Chief engineer, Chas. M. Wallace.*

WATER SUPPLY—Source, Wilson creek; system, gravity; reservoirs cap 1,000,000 gals; storage ponds, cap 3,000,000 gals; 65 hydrants; pipe 7 miles, 12 to ¾ in dia; 6 meters; 125 taps; service pipe ¾ to 1-2 iron; pressure, domestic 65, fire 70 pounds; waterworks owned by company; original cost to construct \$60,000, cost to date \$65,000; ann expenses \$1,800. Supt, J. C. Hubbell.

Elmer, Chehalis Co., population 650; fire area 4 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 800 ft; value of fire department equipment \$800; total membership 20, all volunteers; bell alarm. Chief, J. R. O'Donnell.

WATER SUPPLY—Source, impounding reservoir; system, gravity; 8 hydrants; pipe 2 1-5 miles, 8 to 2½ in dia; quality of water good; pressure, domestic 20, fire 30 pounds; works owned by town; cost to construct \$12,000; ann expenses \$300.

Everett, Snohomish Co., population 6,000; fire area 1,620 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, 600 ft. for engine, cotton good 1,960 ft; 2 horses, value \$400; value of equipment \$7,000; value of buildings occupied \$1,000; ann expenses \$1,900; total membership 36, paid full time 3, paid part time 32; telephone and whistle alarm. Chief engineer, J. A. Bone.

WATER SUPPLY—Source, reservoir fed by springs; system, pumping to reservoir; reservoir cap 5,000,000 gals; pumping engines, dy cap 2,200,000 gals; 14 hydrants; pipe 18 miles, 4 to 10 in; pressure, domestic 108 pounds, fire same; waterworks owned by company; cost to construct to date \$168,000. Pres, Henry Hemitt, Jr; supt, Geo. E. Montandon.

Fairhaven, Whatcom Co., population 3,000; fire area 1,000 acres; mercantile buildings, wood and brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, rubber good 2,600 ft, inferior 400 ft; value of

fire department equipment \$7,000; value of buildings occupied \$10,000; total ann expenses of department \$1,000; total membership 30, paid full time 2, paid part time 28; bell alarm. Chief engineer, C. W. McKinzie.

WATER SUPPLY—Source, Lake Padden; system, gravity; reservoir cap 2,000,000,000 gals; 40 hydrants; pipe 19 miles, 12 to 4 in; 460 taps; 50 valves; pressure, domestic 81, fire 140 pounds; waterworks owned by company; expenses of construction to date \$112,000; ann expenses \$3,033. Supt, T. W. Gillette.

Goldendale, Klickitat Co., population 1,000; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage, other apparatus, ladders, buckets, hooks, etc; hose, rubber good 600 ft, inferior 400 ft; value of fire department equipment \$700; total membership 24, volunteers; bell alarm. Chief engineer, R. D. McCuey.

WATER SUPPLY—Source, spring; system, pumping to reservoir, cap 100,000 gals; pumping engines, dy cap 750,000 gals; 12 hydrants; pipe 3 miles, 6 in dia; pressure 95 pounds; works owned by town; cost to construct \$12,500. Town clerk, W. B. Prealey.*

Hogquiam, Chehalis Co., population 1,500; fire area 80 acres; mercantile buildings, wood, 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,400 ft, inferior 180 ft; value of fire department equipment \$6,000; value of buildings occupied \$1,000; total ann expenses of department \$233; total membership 65, volunteers; electric bell alarm. Chief engineer, S. S. Davis.

WATER SUPPLY—Source, springs; system, gravity and pumping direct; reservoir cap 50,000 gals; pumping engines, cap 25,000 gals in 10 hours; 9 hydrants; pipe 3 miles, 7 to 3 in; 156 taps; 4 valves; pressure, domestic 45, fire 45 pounds; waterworks owned by company; original cost to construct \$10,000; ann expenses \$1,200. Supt, Geo. H. Emerson.

La Conner, Skagit Co., population 600; fire area 20 acres; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 6 chemical extinguishers, 1 hook and ladder truck, other apparatus, 50 buckets; value of fire department equipment \$300; value of buildings occupied \$400; total membership 40, volunteers; triangle alarm. Captain, Edwin Wells.

WATER SUPPLY—Source, springs; system, gravity and pumping to distributing tank; tank cap 21,000 gals; pumping engines, cap 100,000 gals in 10 hours; pipe 4 miles, 6 to 2 in dia; 7 valves; 160 taps; works owned by company; cost to construct \$11,000; ann expenses \$540. Supt, H. L. Conner.

Medical Lake, Spokane Co., population 617; fire area 160 acres; mercantile buildings, wood, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 1 aerial truck, 2 hose carriages, 2 hose carts, buckets; hose, rubber good 1,000 ft, cotton good 500 ft; value of fire department equipment \$1,600; value of buildings occupied \$300; total membership 18, volunteers; bell alarm. Chief engineer, J. A. Campbell.

WATER SUPPLY—Source, reservoir; system, gravity; reservoir cap 600,000 gals; 17 hydrants; pipe 2½ miles, 4 to 6 in dia; 10 valves; 1 meter; 26 taps; pressure 34 pounds; works owned by city; cost to construct \$14,000; ann expenses \$1,200. Supt, J. W. Young.

Montesano, Chehalis Co., population 1,200; fire area 1 sq mile; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine on wheels, 1 hose carriage; hose, rubber good 1,200 ft; value of fire department equipment \$2,200; value of buildings occupied \$1,000; total membership 35; bell alarm. Chief engineer, E. R. Rabberson.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 1,000,000 gals; 21 hydrants; pipe 3 miles, 8, 6, 4 in dia; 14 valves; 60 taps; pressure, domestic 75, fire 90 pounds; waterworks owned by company; original cost to

construct \$31,000; ann expenses \$700. Supt, A. C. LeRoy.

New Whatcom, Whatcom Co., population 4,050.

WATER SUPPLY—Source, Lake Whatcom; system, gravity; 40 hydrants; pipe 18 1-3 miles; quality of water pure; pressure 125 pounds; works owned by company. Supt and treas, M. L. Strangroom.*

North Yakima, Yakima Co., population 3,500; fire area 30 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3,000 ft; value of fire department equipment \$10,000; value of buildings occupied \$7,500; total membership 60, volunteers; bell alarm. Chief engineer, Ed. Farmer.

WATER SUPPLY—Source, Natchez river; system, gravity; dy cap 3,000,000 gals; hydrants 29; pipe 6 miles, 14 to 4 in dia; 82 valves; pressure, domestic 35, fire 100 pounds; works owned by company. Supt, J. Sinsel.*

Olympia, Thurston Co., population 6,000; fire area 680 acres; mercantile buildings, brick and wood, 1 to 4 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carts, 1 hose wagon; hose, cotton good 300 ft, inferior 200 ft, rubber good 4,000 ft, inferior 1,000 ft; 2 hoses, value \$800; value of fire department equipment \$10,000; value of buildings occupied \$30,000; total ann expenses of department \$18,600; total membership 64, paid full time 3, paid part time 20, volunteer members 41; Gamewell alarm; 11 street boxes; 4 fire companies. Chief engineer, S. L. McClellan.*

WATER SUPPLY—Source, Moxlie creek; system, pumping to reservoir and direct; reservoir cap 2,500,000 gals; pumping engines, dy cap 2,000,000 gals; 41 hydrants; pipe 22 miles, 14 to 4 in dia; 42 valves; 6 meters; 900 taps; pressure, domestic 40 to 115 pounds, fire same; works owned by company; cost to construct \$162,000, cost to date \$240,000; ann expenses \$5,000. Supt, W. F. Newell.

Orting, Pierce Co., population 715; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 chemical engine, 2 chemical extinguishers, 1 hook and ladder truck, 12 fire buckets; hose, rubber good 500 ft; value of equipment \$2,730; value of buildings occupied \$275; membership 12, volunteers; bell alarm. Chief, Wm. Colgrove.

WATER SUPPLY—Source, springs; system, gravity; reservoir, cap 18,000 gals; pipe 5 miles; pressure 80 pounds; cost to construct \$5,000; ann expenses \$200. Pres, F. E. Eldridge. For fire protection B. R. tank and mill.

Palouse, Whitman Co., population 1,400; fire area 60 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,600 ft; value of equipment \$2,500; buildings \$500; ann expenses \$120; 40 volunteer members. Chief, S. J. Thornton.

WATER SUPPLY—Source, Palouse river; system, pumping to reservoir; cap 130,000 gals; pumping engines, dy cap 288,000 gals; 19 hydrants; pipe 3 miles, 12 to 4 in; 15 valves; 110 taps; pressure, domestic 95, fire 95 to 110 pounds; works owned by village; cost to construct \$19,000; ann expenses \$1,800. Supt, Alex Warner.

Pomeroy, Garfield Co., population 1,200; fire area 7½ blocks; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,500 ft; value of fire department equipment \$2,500; value of buildings occupied \$750; total ann expenses of department \$100; total membership 50, volunteers; bell alarm. Chief engineer, F. J. Eisenbach.

WATER SUPPLY—Source, river; system, pump to reservoir; reservoir cap 200,000 gals, pumps, dy cap 60,000; 13 hydrants; pipe 1½ miles, 4 to 8 in dia;

quality of water good; pressure 60, fire 200; works owned by city; cost to construct \$10,000; ann expenses \$50. Supt, E. Burlingame.*

Port Angeles, Clallam Co., population 4,500; fire area 640 acres; mercantile buildings, wood, 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire not investigated. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total membership 38, volunteers; bell alarm. Chief engineer, C. F. Merritt.

WATER SUPPLY—Source, mountain stream; system, gravity; reservoir cap 3,000,000 gals; 14 hydrants; pipe 8 miles, 12 to 2 in dia; 20 valves; 5 meters; pressure, domestic 85, fire 112 pounds; waterworks owned by company; original cost to construct \$75,000; ann expenses \$1,000. Supt, C. E. Mallette.

Port Townsend, Jefferson Co., population 3,500; fire area 10 acres; mercantile buildings, stone and brick, 3 stories; private, wood, 1½ stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, rubber good 2,800 ft, inferior 300 ft, cotton good 1,000 ft; 5 hoses, value \$1,450; value of fire department equipment \$18,000; value of buildings occupied \$12,000; total ann expenses of department \$7,000; total membership 40, paid full time 5, paid part time 35, volunteers; Gamewell alarm; 14 street boxes; 3 hose companies. Chief, D. H. Hill.

WATER SUPPLY—Source, wells; system, pump to reservoir, cap 300,000 gals; pumping engines, dy cap 300,000 gals; 15 hydrants; pipe 3 miles, 6 to 8 in dia; pressure 90 pounds; works owned by company. Supt, John H. Hill.

Pullman, Whitman Co., population 2,500; fire area 200 acres; mercantile buildings, brick, 1 to 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 1,000 ft; value of fire department buildings \$8,000; total membership 44, volunteers; bell and whistle alarm. Chief, D. G. Burns.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir and direct; reservoir cap 438,000 gals; pumping engines, dy cap 500,000 gals; 31 hydrants; pipe 4½ miles, 8 to 4 in dia; 15 valves; 200 taps; pressure 120 pounds; works owned by city; cost to construct \$40,000. Supt, J. C. Zender.

Payallup, Pierce Co., population 2,500; fire area 500 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 600 ft; value of fire department equipment \$1,500; total membership 60, volunteers; whistle alarm; 2 fire companies. Chief engineer, B. R. Barry.

WATER SUPPLY—Source, springs, 2 miles southwest of city; system, pumping to reservoir; reservoir cap 120,000 gals; pumping engines, dy cap 1,500,000 gals; 4 hydrants; pipe 10 miles, 12 to 1 in dia; 9 valves; 2 meters; pressure, domestic 65 pounds, fire same; works owned by company. Supt, F. R. Bradley.

Sealym, Kittitas Co., population 1,484.*
WATER SUPPLY—Source, springs; and 2 artesian wells; system, gravity and pumping to reservoir or direct; reservoir cap 1,200,000 gals; pumping engines, dy cap 80,000 gals in 10 hrs; 25 hydrants; pipe 1½ miles; 35 valves; pressure 55 pounds; 400 taps; works owned by city; cost to construct \$13,000, cost to date \$15,000; ann expenses \$350. Supt, L. F. McConihe.

Seattle, King Co., population 63,000; fire area 250 acres; mercantile buildings, brick and stone, 3 to 8 stories; private, wood, 2 to 4 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—6 steam fire engines, 3 chemical engines on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, with 1 in reserve, 1 aerial truck, 3 hose carriages, all kinds, 6 hose wagons, 1 supply wagon, 1 fire boat; hose, cotton good 11,500 ft, rubber good 800 ft, inferior 1,500 ft; 35 hoses, value \$250 each; value of fire department equipment \$131,720.50; value of buildings occupied \$61,720.85; total ann ex-

expenses of department \$91,287; total membership 77, paid full time; Gamewell alarm; 51 street boxes; 5 engine companies, chemical 3; 2 hook and ladder companies. Chief engineer, A. B. Hunt. (1 engine and 5,000 ft hose, 10 more alarm boxes contemplated.)

WATER SUPPLY—Source, Lake Washington, 25 miles long, 3 miles wide; system, pumping to reservoir and direct; reservoir cap 4,500,000 gals; pumping engines, dy cap 10,000,000 gals; 425 hydrants; pipe 97 miles from 30 in dia down; 532 valves; 250 meters; 7,500 tape; pressure, domestic 75 to 130 pounds; fire same; works owned by city; cost to construct to date, \$1,015,171; ann expenses \$60,000. Supt, Robt. H. Calligan.

Snohomish, Snohomish Co., population 3,500; fire area 640 acres; mercantile buildings, brick and wood, 3 stories; private, wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,750 ft, inferior 250 ft, rubber good 950 ft, inferior 50 ft; 2 horses, value \$400; value of fire department equipment \$9,500; value of buildings occupied \$700; total ann expenses of department \$1,032; total membership 54, volunteer members; bell alarm; 3 hose companies. Chief engineer, E. M. Allen.

WATER SUPPLY—Source, Pitchook river; system, pumping to reservoir and direct; reservoir cap 500,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 53; pipe 6½ miles, 12 to 4 in dia; 31 valves; 213 tape; pressure, domestic 65, fire 150 pounds; waterworks owned by city; cost to construct \$43,890, cost to date, \$47,450; ann expenses \$4,305. Supt, Geo. W. Head.

Spokane, Spokane Co., population 30,000; fire area 9 sq miles; mercantile buildings, brick and stone, 3 to 7 stories; private, wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 3 chemical engines on wheels, 2 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 3 hose carriages, all kinds, 2 hose wagons, 2 buggies; hose, cotton good 7,000 ft, inferior 3,000 ft; 27 horses, value \$5,400; value of fire department equipment \$42,000; value of buildings occupied \$53,000; total ann expenses of department \$52,000; total membership 45, paid full time; electric alarm; 27 street boxes. Chief engineer, F. B. Winebrenner.

WATER SUPPLY—Source, Spokane river; system, pumping direct; pumping engines, dy cap 3,500,000 gals; 210 hydrants; pipe 217½ miles, 20 to 4 in dia; 280 valves; 80 meters; pressure, domestic 60, fire 113 pounds; waterworks owned by city; original cost to construct \$358,216; expenses of construction to date \$377,304; ann expenses \$12,000. Supt and pres Pub Wks, F. P. Weymouth.*

Sprague, Lincoln Co., population 2,500; mercantile buildings, wood, 2 stories; private, same; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,250 ft; value of equipment \$3,000; value of buildings occupied \$7,000; volunteer members 75; bell alarm. Chief, C. P. Noyard.

WATER SUPPLY—Source, well; system, pump to reservoir and direct; cap 100,000 gals; pumping engines, dy cap 800,000 gals; 28 hydrants; pipe 5 miles, 8, 6, 4 in dia; 8 valves; pressure 60 to 80 pounds; waterworks owned by city; cost to construct \$15,000; ann expenses \$3,000. Supt, W. A. Buckley.

Summer, Pierce Co., population 800; buildings, wood, 2 stories; wooden roofs permitted; no fire department.

WATER SUPPLY—Source, springs; system, gravity to and from reservoir; 2 hydrants; pipe 6

miles; quality of water good; works owned by company; cost to construct \$7,300. Supt, F. Swensen.*

Tacoma, Pierce Co., population 50,000; fire area 10,000 acres; mercantile buildings, brick, stone and wood, 1 to 7 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—6 steam fire engines, 3 chemical engines on wheels, 12 chemical extinguishers, 2 hook and ladder trucks, 1 aerial truck, 2 hose carriages, all kinds, 4 hose wagons, 1 supply wagon, 3 chiefs wagons; hose, cotton good 15,300 ft, rubber good 2,400 ft; 40 horses, value \$7,200; value of fire department equipment \$128,236; value of buildings occupied \$63,208; total ann expenses of department \$81,240; total membership 57, paid full time; Gamewell alarm; 44 street boxes. Chief engineer, H. M. Lillie.

WATER SUPPLY—Source, Clover creek, Spanaway lake and springs; system, gravity and pumping to standpipe; reservoir cap 2,000,000 gals; standpipe cap 500,000 gals; pumping engines, dy cap 9,000,000 gals; 285 hydrants; pipe 58 miles, 4 to 24 in dia; 250 meters; 1,400 tape; pressure 50 to 135 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$1,550,000. Supt, R. H. Lloyd.

Vancouver, Clark Co., population 6,500; fire area 1 sq mile; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, rubber good 1,500 ft, inferior 500 ft, cotton good 1,000 ft; 4 horses, value \$600; value of equipment \$7,000; value of buildings \$1,200; ann expenses \$3,351; membership 76, volunteers; bell alarm. Chief, Chas. W. Caples.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 325,000 gals. Supt, J. R. Winter. (Waterworks system contemplated.)

Watsburg, Walla Walla Co., population 1,200; fire area 10 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine (not used), 2 chemical extinguishers, 2 hose carriages, hooks and ladders; hose, cotton good 800 ft, rubber poor 400 ft; value of fire department equipment \$2,000; value of buildings occupied \$500; total membership 25, volunteers; bell alarm. Chief engineer, Chas. L. Smith.

WATER SUPPLY—Source, Copper creek; system, gravity; reservoir cap 450,000 gals; 25 double hydrants; pipe 6 miles, 4 to 8 in; 23 valves; 78 tape; pressure 70 pounds; works owned by city; cost to construct \$28,000. Supt, Geo. Brown.

Walla Walla, Walla Walla Co., population 8,000; fire area 17 squares; mercantile buildings, brick and iron, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 6 chemical extinguishers, 2 hook and ladder trucks, 6 hose carriages, 1 hose wagon, slamese couplings used; hose, rubber good 3,000 ft, inferior 1,000 ft, cotton good 300 ft; 3 horses, value \$400; value of fire department equipment \$18,000; value of buildings occupied \$30,000; total ann expenses of department \$8,523; total membership 120, paid full time, 4 volunteers 118; bell alarm; 3 fire companies. Chief engineer, Dr. Y. C. Blalock.

WATER SUPPLY—Source, springs; system, gravity; 2 collecting reservoirs, cap 2,000,000 gals; 52 hydrants; pipe 21 miles, 4 to 20 in dia; 51 valves; pressure 30 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$5,000. Secy, H. H. Turner.

WEST VIRGINIA.

Bluefield, Mercer Co., population 5,000; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fire ordinance; and fire limits; causes of fire investigated. Fire department—2 hose carriages, all kinds; hose, linen good 1,200 ft; value of fire department equipment \$1,000; total ann expenses of department \$500; total membership 40; whistle alarm. Chief engineer, N. H. Smith.

WATER SUPPLY—Source, springs; system, gravity and pumping to tank; cap 258,000 gals; pumping engines, dy cap 1,271,600 gals; 15 hydrants; pipe 11 miles, 3 to 10 in dia; 25 valves; 7 meters; tape 350; pressure, domestic 70, fire 70 pounds; waterworks owned by company; original cost to construct \$28,000; expenses of construction to date \$80,000. Supt, Malcolm W. Byran.

Buckhannon, Upshur Co., population 2,600;

fire area 100 acres; mercantile buildings, wood, few brick, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 10 ladders; value of fire department equipment \$400; value of buildings occupied \$50; total membership 50, volunteers; bell alarm. Chief, E. L. Day.

WATER SUPPLY—Source, wells.

Charleston, Kanawha Co., population 10,000; fire area 300 acres; mercantile buildings, wood, stone and brick, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 8 hose carriages; hose, rubber good 1,500 ft, poor 1,000 ft; 3 horses; value \$135 each; value of fire department equipment \$10,000; value of buildings occupied \$2,000; ann expenses \$2,000; total membership 20, paid full time 3, part time 17; Gamewell alarm; 15 boxes. Chief, E. Callahan.

Water Supply—Source, Elk river; system, direct pumping; 2 pumping engines, dy cap 3,000, 000 gals; 60 hydrants; pipe 18 miles, 4 to 12 in dia; 140 valves; 50 meters; pressure, domestic 40 to 45, fire 80 pounds; waterworks owned by company; cost to construct \$38,000; ann expenses \$16,000. Pres, E. B. Knight; supt, Frank Woodman.

Charlestown, Jefferson Co., population 3,000; fire area 300 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,600 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,500; expenses for past year \$250; membership 100, volunteers. Chief engineer, C. M. Hough.

Water Supply—Source, springs; system, gravity; standpipe cap 70,000 gals; pumping engines, dy cap 250,000 gals; 24 hydrants; 8 miles of pipe, 6 to 2 in dia; pressure, domestic 20 to 50 pounds; works owned by company; cost to construct \$30,000. Supt, B. C. Washington.

Clarksburgh, Harrison Co., population est 3,500; fire area 500 acres; mercantile buildings, stone and brick, 2 and 3 stories; private, wood, stone and brick, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 sets of ladders, 3 hose carriages; hose, linen good 2,500 ft, poor 100 ft; value of equipment \$2,500; value of buildings occupied \$100; total membership 60, volunteers; electric alarm. Capt, Hugh Callahan.

Water Supply—Source, West fork of Monongahela river; system, pumping to tanks; 2 tanks, cap 560,000 gals; 2 pumping engines, dy cap 500,000 gals; 51 hydrants; pipe 9 miles, 4 to 12 in dia; pressure 110 to 125 pounds; Edison pressure recording gauge; waterworks owned by town; cost to construct \$50,000; ann expenses \$1,100. Supt, W. R. Alexander.*

Fairmont, Marion Co., population 2,600; fire area 75 acres; mercantile buildings, brick and stone; 3 stories; private, stone, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 600 ft; bell alarm. Chief engineer, L. S. Fleming.

Water Supply—Source, Monongahela river; system, pumping to reservoir; reservoir cap 150,000 gals; pumping engines, dy cap 100,000 gals; pipe 6 to 3 in; taps 135; pressure, domestic 110 pounds, fire same; waterworks owned by city; original cost to construct \$20,000; ann expenses \$1,500. Supt, J. E. Morgan.

Hinton, Sumner Co., population 3,000; fire area 148 acres; mercantile buildings brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 600 ft; value of fire department equipment \$950; value of buildings occupied \$150; volunteer members 30; bell alarm. Fire com, F. E. Van Antwerp.

Water Supply—Source, Greenbrier river; system, pumping to reservoir; reservoir cap 977,250 gals; pumping engines, dy cap 600,000 gals; hydrants 37; pipe 5 15-100 miles, 4, 6 and 8 in; taps 304; valves 45; pressure 140 to 160 pounds; waterworks owned by company; original cost to con-

struct \$27,641; ann expenses \$3,406. Supt, F. R. Van Antwerp.

Huntington, Cabell Co., population 12,000; fire area 1,000 acres; mercantile buildings, stone and brick, 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon, 1 Bangor extension ladder, slamese couplings used; hose, rubber good 2,800 ft, inferior 300 ft; 5 horses, value \$800; value of fire department equipment \$15,700; value of buildings occupied \$8,000; total ann expenses of department \$4,125; total membership 73, paid full time 3, paid part time 3; Gamewell alarm; 14 street boxes. Chief engineer, J. W. Boone.

Water Supply—Source, Cook well system bottom of Ohio river; system, direct pumping and to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 5,000,000 gals; 113 hydrants; pipe 13½ miles, 4 to 6 in dia; 40 valves; 5 meters; 1,070 taps; pressure 120 pounds; waterworks owned by company; cost to construct \$90,000. Supt, W. W. Adams.

Keyser, Mineral Co., population 2,165; mercantile buildings, brick and wood, 25 to 35 ft; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; no fire department; 1 hook and ladder truck, hand grenades, buck-ets.*

Water Supply—Source, large spring; system, gravity; reservoir cap 1,000,000 gals; hydrants 34; pipe 8 miles, 8 to 4 in; taps 75; valves 40; pressure 138 pounds; waterworks owned by city; original cost to construct \$40,000. Supt, M. H. Smith.

Martinsburg, Berkeley Co., population 7,226; fire area 640 acres; mercantile buildings, brick and wood, 3 stories; private, brick and wood, 2 and 3 stories; tin and slate roofs; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,000 ft, rubber 1,300 ft; value of fire department equipment \$7,500; total ann expenses of department \$500; total membership 100, volunteers; bell alarm. Chief engineer, Wm. Chime.

Water Supply—Source, springs; system, direct pumping; pumping engines, dy cap 1,500,000 gals; 60 hydrants; pipe 7 miles, 3 to 12 in dia; 47 valves; 800 taps; pressure, domestic 60, fire 80 pounds; waterworks owned by city; cost to construct \$80,000, cost to date \$90,000; ann expenses \$2,200. Supt, J. M. Shaffer.

Morgantown, Monongalia Co., population 1,011; fire area 50 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,150 ft, inferior 50 ft; value of fire department equipment \$2,000; total ann expenses of department \$350; total membership 23, paid full time 19, paid part time 4, volunteers; bell alarm. Chief marshal, J. R. Miller.

Water Supply—Source, river, wells, creek, mountain springs; system, gravity; 2 impounding reservoirs, cap 400,000 gals; 15 hydrants; pipe 13 miles, 6 and 4 in; valves 15; pressure 90 to 115 pounds; waterworks owned by company; cost to construct \$40,000; ann expenses \$1,000. Supt, E. M. Grant.

Parkersburg, Wood Co., population 10,000; buildings, stone, brick and wood, 2 to 4 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 100 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 2,700 ft, rubber 800 ft; 2 horses; value of fire department equipment \$8,000; total membership 111, paid full time 2, paid part time 10, volunteers 100; Gamewell alarm; 14 street boxes. Chief engineer, J. F. Barrows.

Water Supply—Source, Ohio river; system, pumping to tanks; 2 tanks, cap 2,000,000 gals; pumping engines, dy cap 4,000,000 gals; 67 hydrants; pipe 14½ miles, 4 to 12 in dia; valves 200; 1,800 taps; pressure 60 to 100 pounds; waterworks owned by city; cost to construct \$100,000, cost to date \$125,426; ann expenses \$2,000. Supt, C. T. Bryan.

Piedmont, Mineral Co., population 2,236; fire area 150 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs

permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 hose carriages, all kinds; hose, rubber inferior 400 ft, linen good 600 ft; value of fire department equipment \$500; value of buildings occupied (city hall) \$36,000; total membership 30, volunteer members. Chief engineer, A. S. Hutson.

WATER SUPPLY—Source, Savage river; system, pumping to reservoir; reservoir cap 525,000 gals; 2 pumping engines, dy cap 1,500,000 gals; hydrants 30; pipe 4½ miles, 12 to 4 in; valves 30; pressure, 60 to 104 pounds; waterworks owned by city; original cost to construct \$40,000; ann expenses \$1,000. Supt, J. H. Bell.

Point Pleasant, Mason Co., population 3500; fire area 300 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in business parts; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 1 hook and ladder truck; value of fire department equipment \$500; total membership 35, volunteers; bell alarm. Chief, C. F. Hess.

WATER SUPPLY—Source, wells and springs.

Havenswood, Jackson Co., population 817; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted. Chief, W. H. Gould.*

WATER SUPPLY—Source, Ohio river and cisterns. Town clerk, R. T. Wetzel.*

Homney, Hampshire Co., population 800; fire area 90 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—ladders, buckets and private hose. (Fire department contemplated.)

WATER SUPPLY—Source, mountain springs; system, gravity; 2 reservoirs, cap 75,000 gal; each; hydrants 158; pipe about 5 miles, ½ to 3 in dia; works owned by town; cost \$3,000, to date \$4,000; ann expenses \$200. Supt, J. H. Newhouse.

Bonecorte, Greenbrier Co., population 418; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose carriage, buckets; hose, cotton good 750 ft; value of fire department equipment \$3,000; total membership 40; whistle alarm. Chief foreman, E. C. Best.*

Ahnapee, Kewaunee Co., population 1,015; fire area radius 1 mile; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 private chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages; hose, rubber good 1,000 ft, inferior 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$2,500; total membership 50, volunteers; bell alarm; 2 fire companies. Chief engineer, M. T. Parker.*

WATER SUPPLY—Source, lake, river and cisterns. City clerk, J. R. McDonald.

Albany, Green Co., population 1,380; fire area 6 blocks; mercantile buildings, brick, 2 stories; private, wood, 1½-2 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, rubber inferior 300 ft; value of buildings occupied \$500; total membership 20, volunteers. Chief, J. F. Annis.*

WATER SUPPLY—Source, river.*

Alma, Buffalo Co., population 1,700; fire area 1 mile by 1-2 mile; buildings, stone, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carts, 1 hand pump; hose, rubber good 400 ft, cotton good 1,300 ft; value of equipment \$4,843.50; value of buildings occupied \$1,800; total expenses for past year \$250; membership 70, volunteers; bell alarm. Chief, C. F. Kreuzer.

WATER SUPPLY—Source, river.

Antigo, Langlade Co., population 4,424; fire area 1½ mile; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carriages; hose, cotton good 500 ft, rubber good 1,500 ft, inferior 500 ft; value of fire department

WATER SUPPLY—Source, river.*

Shepherdstown, Jefferson Co., population 1,715; buildings, brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,350 ft; value of fire department equipment \$4,000; 1 building occupied; total membership 80, volunteers. Chief, Chas. Ferrell.

WATER SUPPLY—Source, wells, cisterns, streams.

Wellsburg, Brooke Co., population 2,250; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, linen good 1,000 ft, rubber good 800 ft, inferior 300 ft; membership 50, volunteers. Chief, W. Reeves.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir and direct; reservoir cap 300,000 gals; pumping engines, dy cap 1,000,000 gals; 26 hydrants; pipe 5½ miles, 3 to 10 in; 23 valves; pressure 100 pounds; waterworks owned by town; cost to construct \$25,000, to date \$30,000; ann expenses \$1,500. Supt, N. Nelson.

Wheeling, Ohio Co., population 45,000; fire area 23 miles; mercantile buildings, stone, and brick, 1 to 8 stories; private, brick and wood, 2 to 4 stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 steam fire engines, 1 chemical engine on wheels, 18 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 2 hose wagons, 1 combination chemical and hose wagon; hose, cotton good 20,000 ft; 23 horses, value \$200 each; value of fire department equipment \$20,000; value of buildings occupied \$50,000; total ann expenses of department \$34,000; total membership 32, paid full time; Gamewell alarm; 54 street boxes; 8 engine companies, 1 hook and ladder company, 3 hose companies. Chief marshal, Frank J. Healy.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir and direct; reservoir cap 4,750,000 gals; 2 pumping engines, dy cap 7,500,000 gals each; 324 hydrants; pipe 36.8 miles, 3 to 30 in; pressure 60 to 106 pounds; waterworks owned by city; expenses of construction to date \$1,000,000 (estimated); ann expenses \$50,000. Supt, Geo. M. Varney.

WISCONSIN.

ment equipment \$5,000; total ann expenses of department \$500; total membership 24, volunteers; Gamewell alarm; 1 street box. Chief, W. B. Johns.*

WATER SUPPLY—Source, wells; system, pump to standpipe and direct; standpipe cap 150,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 60; pipe 5½-2 miles, 12 to 4 in dia; valves 21; 80 taps; pressure, domestic 40 to 50, fire 80 to 150 pounds; works owned by company; cost to construct \$95,000, to date \$70,000; ann expenses \$1,500. Supt, E. LaLonde.

Appleton, Outagamie Co., population 13,000; fire area 10 blocks; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 and 3 stories; shingle and tin roofs; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages, 2 hose ladders; hose, rubber good 2,500 ft, inferior 100 ft; 6 horses, value \$1,600; value of fire department equipment \$15,000; value of buildings occupied \$8,500; total ann expenses of department \$13,000; total membership 22, paid full time 14, volunteers; Gaynor alarm; 27 street boxes. Chief, W. E. Klopfel.*

WATER SUPPLY—Source, Fox river and 3 artesian wells; system, direct pumping; 1 settling and 1 storage reservoir, cap 4,500,000 gals; pumping engines, dy cap 3,500,000 gals; 189 hydrants; pipe 19 miles, 6 to 16 in dia; 50 meters; pressure, domestic 45, fire 80 to 120 pounds; waterworks owned by company; cost to construct \$200,000. Supt, Abram Wing.

Arcadia, Trempealeau Co., population 1,100; fire area 200 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 1 hose

carriage; hose, cotton good 500 ft; value of fire department equipment \$1,500; value of buildings occupied \$8,000; total membership 40, volunteers. Chief, Seth Putnam.

WATER SUPPLY—Source, wells.

Ashtland, Ashtland Co., population 16,000; mercantile buildings, brick, stone and wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 2 hose wagons; hose, cotton good 6,100 ft, rubber good 800 ft; 8 horses, value \$1,600; value of fire department equipment \$12,300; value of buildings occupied \$7,000; total ann expenses of department \$13,840; total membership 41, paid full time 11, volunteers 30; Gamewell alarm; 19 street boxes. Chief, Fred W. French.

WATER SUPPLY—Source, Lake Superior; system, direct pumping; pumping engines, dy cap 4,000,000 gals; 177 hydrants; pipe 22 miles, 6 to 24 in dia; 68 valves; 19 meters; pressure, domestic 60, fire 100 to 150 pounds; waterworks owned by company; cost to construct \$200,000; ann expenses \$9,000. Supt. J. I. Jones.

Augusta, Eau Claire Co., population 1,400; mercantile buildings, brick; private, wood; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 500 ft; value of fire department equipment \$1,000; value of buildings occupied \$400; total membership 38, volunteers; bell alarm. Chief engineer, O. A. Williams.

WATER SUPPLY—Source, pond and wells.

Baraboo, Sauk Co., population 4,605; fire area 15 acres; mercantile buildings, stone and brick, 2 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,200 ft, rubber good 1,200 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$700; total membership 30, volunteers, paid for services; bell alarm; 1 hook and ladder company, 2 hose companies. Chief, J. G. Seaman.

WATER SUPPLY—Source, springs; system, pumping to standpipe, cap 150,000 gals; pumping engines, dy cap 1,000,000 gals; 101 hydrants; pipe 10½ miles, valves 38; meters; 465 taps; pressure, domestic 105, fire 150 pounds; waterworks owned by company; cost to construct \$140,000; ann expenses \$3,600. Supt. J. H. Pouley.

Bayfield, Bayfield Co., population 3,000; fire area 200 acres; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,200 ft, poor 800 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; total membership 16, volunteers, paid \$3 per fire; 2 triangles and bell alarm. Foreman, John Wilkinson.

WATER SUPPLY—Source, springs; system, gravity; cap of reservoirs 30,000,000 gals; 20 hydrants; pipe 5 miles, 4 to 10 in dia; pressure 25 to 60 pounds; waterworks owned by company; cost to construct \$10,000; ann expenses \$1,000. Supt. O. G. Bell. (Will spend \$15 or \$20,000 in improvements.)

Bay View, Milwaukee Co. (See Milwaukee.)

Beaver Dam, Dodge Co., population 4,222. Fire department—1 hand engine not used, 6 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,700 ft, inferior 100 ft; total membership 40, volunteers. Chief engineer, C. W. Harvey.

WATER SUPPLY—Source, 5 springs; system, pumping to standpipe and direct; 2 pumping engines, dy cap 1,000,000 gals each; 85 hydrants; pipe 8½ miles, 12 to 4 in; 393 taps; pressure 48 to 150 pounds; works owned by company; ann expenses \$3,500. Supt. F. E. Taylor.

Beloit, Rock Co., population 8,000; fire area 80 acres; mercantile buildings, stone and brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose cart, 1 hose wagon; hose, cotton good 3,000 ft; 4 horses, value \$400; value of fire department equipment \$3,500; value of buildings occupied \$3,000; total ann expenses of department

\$3,000; total membership 10, paid full time 3, paid part time 7; bell and Gamewell alarm; 19 street boxes. Fire marshal, O. F. Macy.

WATER SUPPLY—Source, springs and driven wells; system, pumping to standpipe and direct; standpipe cap 100,000 gals; pumping engines, dy cap 2,000,000 gals; 105 hydrants; pipe 13 miles, 4 to 16 in dia; valves 4; 100 meters; 600 taps; pressure, domestic 50, fire 100 pounds; waterworks owned by company; cost to construct \$125,000; ann expenses \$3,000. Secy and treas, C. B. Salmon.

Berlin, Green Lake Co., population 4,200; mercantile buildings, brick, 2 and 3 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 hand engines, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, 2 small hand engines with hose; hose, cotton good 2000 ft, rubber good 500 ft; 2 horses; value of department equipment \$8,000; value of buildings occupied \$2,000; total ann expenses of department \$800; total membership 60, paid full time 4, volunteers; bell alarm; 2 engine companies, 1 hook and ladder company, 2 hose companies. Chief engineer, C. M. Boettge.*

WATER SUPPLY—Source, Fox river, wells and cisterns. City clerk, Henry Morman. (Waterworks will probably be put in this year.)

Black River Falls, Jackson Co., population 2,261; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—7 chemical extinguishers, 4 hose carriages, 1 hook and ladder truck; hose, cotton good 700 ft, rubber good 1,500 ft; value of fire department equipment \$3,500; value of buildings occupied \$3,500; total membership 40, volunteers; bell alarm. Chief, H. G. Mason.

WATER SUPPLY—Source, creek, filtered; system, pumping to standpipe, cap 150,000 gals; pumping engines, dy cap 500,000 gals; 14 hydrants; pipe 2½ miles, 10 to 4 in dia; 25 valves; 16 meters; pressure 100 pounds; waterworks owned by town; cost to construct \$27,000; ann expenses \$1,200. Supt. E. G. Greene.

Boscobel, Grant Co., population 1,692; fire area 800 acres; mercantile buildings, stone, 2½ and 3 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 chemical extinguisher, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,700 ft, rubber inferior 400; value of fire department equipment \$3,000; value of 2 buildings occupied \$2,000; total ann expenses of department \$400; total membership 120, volunteers; bell alarm. Chief John J. Ruks.

WATER SUPPLY—Source, river; 2 hydrants.*

Brodhead, Greene Co., population 1,461. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carts; hose, rubber 1,100 ft; total membership 60.*

WATER SUPPLY—Source, artesian well; system, pumping direct; 20 hydrants; pipe 2 miles, 4 to 8 in dia; works owned by city; cost to construct \$10,000.

Burlington, Racine Co., population 2,043; mercantile buildings, brick and stone, 2 stories; private, wood, brick and stone, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 400 ft, cotton good 1,900 ft; value of fire department equipment \$2,500; value of building occupied \$8,000; total ann expenses of department \$250; total membership 45, volunteers; bell alarm. Chief, Frank Rein.*

WATER SUPPLY—Source, artesian well; system, pumping to standpipe, cap 90,000 gals; pumping engines, dy cap 1,000,000 gals; 44 hydrants; pipe 6½ miles, 8 to 4 in dia; 20 valves; 45 meters; pressure 72 and 73 pounds; works owned by city; cost to construct \$38,000. Supt. W. Newbury.*

Cadott, Chippewa Co., population 889; fire area 3-4 miles sq; mercantile buildings, wood, ½ story; private, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 hook and ladder truck, 1 hose wagon; hose, cotton good 150 ft; value of fire department equipment \$850; value of buildings occupied \$300; total membership 30, volunteers; whistle alarm. Foreman, Clark Watson.

WATER SUPPLY—Source, 3 reservoirs, cap 500 bbls. Town clerk, Clark Watson.

Cassville, Grant Co., population 1,000; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hose carriage; hose, cotton good 300 ft; value of fire department equipment \$800; value of buildings occupied \$400; total membership 35, volunteers; bell alarm. Chief engineer, F. H. Beilharz.

WATER SUPPLY—Source, wells and cisterns.

Cedarburg, Ozaukee Co., population 1,361; fire area 800 acres; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, stone, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 200 ft, inferior 300 ft, cotton rubber lined good 500 ft, linen rubber lined good 500 ft; value of fire department equipment \$5,400; value of buildings occupied \$1,000; total ann expenses of department \$2,500; total membership 57, volunteers; bell alarm. Foreman, E. G. Warthman.*

WATER SUPPLY—Source, creek and cisterns.*

Centralia, Wood Co., population 1,435; buildings, brick and wood, 2 stories. Fire department—1 chemical engine on wheels, 6 chemical extinguishers; hose, rubber inferior 200 ft; value of fire department equipment \$800; value of buildings occupied \$2,000; total membership 33; gong, alarm. Chief engineer, W. H. Carey.

WATER SUPPLY—Source, river. (Waterworks to cost \$16,000 will be built this year.)

Chilton, Calumet Co., population 1,424; mercantile buildings, brick, 2 stories; private, wood, 2 stories; tin roofs; no fireworks ordinance. Fire department—1 steam engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft, rubber good 1,200 ft; total membership 50; bell alarm. Chief engineer Henry Kerster.

WATER SUPPLY—Source, river and reservoir.

Chippewa Falls, Chippewa Co., population 8,670; mercantile buildings, brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 5 hose carriages, 1 hose wagon; hose, cotton good 3,000 ft, rubber good 2,000 ft; value of equipment \$15,000; value of buildings \$12,000; total membership 22, paid full time 6; Gamewell alarm; 16 street boxes. Chief engineer, A. Pierce.*

WATER SUPPLY—Source, springs; system, pumping to standpipe, cap 365,000 gals, and direct; pumping engines, dy cap 2,000,000 gals; 150 hydrants; pipe 18 miles, 6 to 12 in dia; 56 valves; 38 meters; 1,125 taps; pressure 40 to 75 pounds; waterworks owned by company; cost to construct \$150,000; ann expenses \$4,000. Supt, Edward Rohan.

Clintonville, Waupaca Co., population 2,000; fire area 640 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,800 ft; value of fire department equipment \$3,500; value of buildings occupied \$500; total membership 28, volunteers; bell alarm. Chief engineer, Chas. F. Schroeder.

Columbus, Columbia Co., population 2,000; fire area 13 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 supply cart; hose, cotton good 800 ft, rubber good 850 ft; value of fire department equipment \$6,500; total membership 75, volunteers; bell and telephone alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief, H. A. Lueders.

WATER SUPPLY—Source, river, artesian wells and cisterns.

Cumberland, Barron Co., population 1,400; fire area 250 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 1½ stories;

wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 300 ft, leather good 300 ft, inferior 200 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann expenses of department \$80; bell alarm.

WATER SUPPLY—Source, 4 cisterns, 3 tanks, 1 pump and lakes.

Darlington, Lafayette Co., population 1,600; fire area 30 acres; buildings, stone and brick, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of equipment \$1,000; value of buildings occupied \$2,500; total membership 58, volunteers; bell alarm. Chief, Thomas Crow.

WATER SUPPLY—Source, spring; system, pumping to reservoir; reservoir cap 120,000 gals; pumping engines, dy cap 120,000 gals; 21 hydrants; pipe 3½ miles; 9 valves; 6 meters; 123 taps; pressure, domestic 70, fire 65 to 100 pounds; waterworks owned by town; cost to construct \$17,000; ann expenses \$700. Supt, J. H. Martin.

Delavan, Walworth Co., population 2,715; fire area 640 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,000 ft, inferior 50 ft, cotton good 1,200 ft; value of fire department equipment \$6,000; value of buildings occupied \$4,050; total ann expenses of department \$1,500; total membership 65, volunteers; 2 bell alarms. Chief engineer, Geo. H. Sturtevant. (Deaf and Dumb Institute, within the limits, has 600 ft hose and cart and organized company.)

WATER SUPPLY—Source, springs; system, pumping to tank; tank cap 50,000 gals; pumping engines, dy cap 750,000 gals; 38 hydrants; pipe 4½ miles, 8 to 4 in; 25 taps; 9 valves; pressure, domestic 50, fire 150 pounds; waterworks owned by city; original cost to construct \$25,000. Supt, M. D. Letterer.

De Pere, Brown Co., population 4,500; fire area 1,000 acres; mercantile buildings, brick, 1 and 2 stories; private, wood and brick, 2 stories; shingle and iron roofs; fireworks ordinance; causes of fire investigated. Fire department—3 steam fire engines, 1 hook and ladder truck, 3 hose carriages, slamese couplings used; hose, rubber good 2,000 ft, inferior 500 ft; value of fire department equipment \$7,500; value of buildings occupied \$4,000; total ann expenses of department \$2,400; total membership 30; bell and whistle alarm. Chief engineer, J. Cal.

WATER SUPPLY—Source, flowing artesian well; system, gravity; dy cap 2,000,000 gals; 24 hydrants; pipe 5 miles, 2 to 8 in dia; pressure 25 to 40 pounds; waterworks owned by company; cost to construct \$12,500, cost to date \$18,000. Supt, A. L. Gogery.

Dodgeville, Iowa Co., population 2,000; fire area 722 acres; mercantile buildings, stone, brick and wood, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines combined with chemical engine, 8 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$5,500; total ann expenses of department \$250; total membership 80, volunteers; bell alarm. Chief engineer, J. W. Hooking.

WATER SUPPLY—Source, wells and cisterns.

Durand, Pepin Co., population 1,400; fire area 200 acres; mercantile buildings, wood, brick and stone, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 1 hook and ladder truck, 1 hose cart, 1 hose wagon; hose, rubber good 1,000 ft, inferior 200 ft; 2 hoses; value of fire department equipment \$4,000; value of buildings occupied \$3,000; total membership 35, paid part time 1, volunteer members 34; bell alarm. Chief engineer, E. W. Sabin.

Eagle River, Oneida Co., population 2,000. Fire department not reported.

WATER SUPPLY—Source, river; system, pumping direct; hydrants 14; pipe 2 miles, 8 in dia;

quality of water good; pressure, domestic 30, fire 30 pounds; waterworks owned by city; original cost to construct \$10,000; ann expenses \$5,000. Supt. A. McKimrie.*

Bau Claire, Bau Claire Co., population 22,000; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs not permitted. Fire department—3 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 6 hose carriages, 2 hose wagons; hose, cotton good 2,000 ft, rubber good 5,000 ft; 15 horses, value \$3,000; value of fire department equipment \$16,400; value of buildings occupied \$19,000; total ann expenses of department \$21,000; total membership 28, paid full time 19, paid part time 7; Richmond alarm; 34 street boxes. Chief engineer, Geo. H. Daniels.

WATER SUPPLY—Source, springs and well; system, direct pumping; impounding reservoir, cap 15,000,000 gals; pumping engines, dy cap 8,000,000 gals; 346 hydrants; pipe 29½ miles, 4 to 20 in dia; 164 valves; 40 meters; 1,377 taps; pressure, domestic 70, fire 90 to 130 pounds; waterworks owned by company; cost to construct \$350,000; ann expenses \$10,000. Supt. W. H. Willard.

Edgerton, Rock Co., population 2,500; fire area 960 acres; buildings, brick and wood, 2 stories; tin and iron roofs; fireworks ordinance. Fire department—1 steam fire engine, 12 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,400 ft, inferior 100 ft; value of fire department equipment \$4,500; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 45, paid part time 1, volunteers; bell alarm. Foreman, G. W. Price.

WATER SUPPLY—Source, stream, ponds and creek.

Elkhorn, Walworth Co., population 1,447; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose cart; hose, 500 ft.

WATER SUPPLY—Source, wells and cisterns. Town clerk, J. F. Lyon.

Elroy, Langdale Co., population 2,000. Fire department not stated.*

WATER SUPPLY—Source, drilled wells; system, pumping to reservoir; pumping engines; 17 hydrants; pipe; pressure, domestic 60; waterworks owned by city; original cost to construct \$15,000; expenses of construction to date \$18,000; ann expenses \$2,000. Supt. I. S. Dunn.*

Evansville, Rock Co., population 1,600; fire area 600 acres; mercantile buildings, wood, brick and stone, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, siamese couplings used; hose, cotton good 1,000 ft, rubber good 900 ft, inferior 350 ft; value of fire department equipment \$4,500; value of buildings occupied \$7,000; total ann expenses of department \$400; total membership 70, volunteers, 8 paid for service; bell alarm; 2 engine companies, 1 hook and ladder company. Chief engineer, Hay Gillman.

WATER SUPPLY—Source, mill race, 6 cisterns and creek.

Florence, Florence Co., population 1,709; building, wood and brick, 1 to 3 stories. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, inferior 300 ft, rubber good 1,200 ft; value of fire department equipment \$2,000; total membership 15, volunteers; whistle alarm. Chief, G. W. Kinnear.

WATER SUPPLY—Source, Lake; system, direct pumping; 2 pumping engines, dy cap 800,000 gals each; 22 hydrants; pipe 1½ miles, 6 and 4 in dia; 65 taps; pressure 45 to 150 pounds; works owned by town; cost to construct \$10,000, cost to date \$18,000; ann expenses \$1,650. Supt. G. A. Taff.

Fond du Lac, Fond du Lac Co., population 13,000; fire area 450 acres; mercantile buildings, brick and stone, 2 stories; private, wood, 2 stories; tin roofs; fireworks ordinance. Fire department—3 steam fire engines, 2 in reserve, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 6,000 ft, rubber inferior 200 ft; 9 horses, value \$1,700; value of fire department equipment \$18,000; value of buildings occupied \$23,000; total ann expenses of department

\$18,000; total membership 23, paid full time 10, paid part time 13; telephone and Gamewell alarm; 17 street boxes; 4 fire companies. Chief engineer, Peter J. Wikert.

WATER SUPPLY—Source, 5 wells; system, direct pumping; reservoir cap 2,500,000 gals; pumping engines, dy cap 6,000,000 gals; 171 hydrants, 7 private; pipe 16 miles, 4 to 14 in dia; 51 valves; 9 meters; pressure, domestic 40, fire 90 to 130 pounds; works owned by company; cost to construct \$135,000. Supt. W. H. Masson.

Fort Atkinson, Jefferson Co., population about 5,000; fire area 100 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; roofs iron; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 500 ft, inferior 500 ft, cotton good 500 ft, inferior 1,000 ft; 2 horses, hired; value of fire department equipment \$8,000; total ann expenses of department \$2,500; volunteer members 80, paid full time 1, paid part time 3; bell alarm. Chief engineer, A. D. Merriman.

WATER SUPPLY—Source, river; system, pumping direct; 9 hydrants; pipe 2,500 ft, 4 and 5 in; pressure, fire 150 pounds.

Fort Howard, Brown Co., population 4,754; fire area 40 miles; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,800 ft, inferior 500 ft; value of fire department equipment \$8,000; value of 2 buildings occupied \$3,000; total ann expenses of department \$1,100; total membership 10, part paid; bell alarm. Chief engineer, A. L. Gray.*

WATER SUPPLY (see Green Bay)—74 hydrants; pipe 8 miles; pressure 60 to 80 pounds. Supt. W. K. Harrington.*

Fountain City, Buffalo Co., population 1,000; fire area 80 acres; mercantile buildings, brick and wood, 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, cotton good 1,000 ft; value of department equipment \$4,500; val of buildings occupied \$3,000; total membership 60, volunteers; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, W. H. Schuster.

WATER SUPPLY—Source, river, fountains, wells and 2 cisterns, of 500 bbls cap each.

Galesville, Trempealeau Co., population 600; buildings, brick, stone and wood, 2 stories; wooden roofs permitted. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 500 ft, rubber good 100 ft, cotton good 300 ft; value of fire department equipment \$900; total membership 38, volunteers; bell alarm. Chief, Chas. Finn.

WATER SUPPLY—Source, lake; system, direct pumping; pumping engines, dy cap 450,000 gals; 15 hydrants; pipe 2,500 ft, 4 in dia; pressure 100 to 300 pounds; works owned by company; cost to construct \$4,000; ann expenses \$500. Supt. O. N. Sagen.

Glenwood, St. Croix Co., population 1,656; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1 and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. No organized fire department.*

WATER SUPPLY—Source, creek; system, pumping direct; pumping engines, dy cap 2,500,000 gals; 27 hydrants; pipe 5 miles, 8 to 4 in dia; pressure, domestic 40, fire 125 pounds; works owned by town; cost to construct \$8,500. Chairman of com, H. J. Baldwin.*

Grand Rapids, Wood Co., population 2,000; fire area 1,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; shingle and metal roofs; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft, rubber good 600 ft; 2 horses, value \$400; value of fire department equipment \$9,000; value of buildings occupied \$15,000; total ann expenses of department \$1,500; total membership 22, volunteers, paid full time; Gamewell alarm; 10 street boxes. Chief engineer, I. E. Philcox.

WATER SUPPLY—Source, river, springs and 3 cisterns.

Green Bay, Brown Co., population 10,000; fire area 500 acres; mercantile buildings, brick, 3 and 4 stories; private, brick and wood, 1 and 2 stories; fireworks ordinance. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds, 1 supply wagon, 2 hose sleds; slamese couplings used; hose, rubber good 3,000 ft, cotton good 2,500 ft; value of fire department equipment \$14,000; value of buildings occupied \$14,000; total ann expenses of department \$16,000; membership paid full time 13; Gamewell alarm; 20 street boxes. Chief engineer, Wm. Kennedy.

WATER SUPPLY—Source, artesian wells; system, direct pumping; reservoir cap 1,000,000 gals; pumping engines, dy cap 8,500,000 gals; 264 hydrants; pipe 27 miles, 4 to 16 in dia; 100 valves; 2 meters; pressure, domestic 40, fire 100 pounds; waterworks owned by company; cost to construct \$300,000. Supt, A. B. Palmer.

Hartford, Washington Co., population 1,500; fire area 700 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 tank wagon; hose, cotton good 900 ft, rubber good 5,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$7,500; total ann expenses of department \$200; total membership 85, volunteers; bell alarm. Chief, Frank Hill.

WATER SUPPLY—Source, river.

Hayward, Sawyer Co., population 1,348; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,500 ft; value of fire department equipment \$3,500; total ann expenses of department \$1,000; total membership 37, volunteers; bell and telephone alarm. Chief, Wm. Stiegler.

WATER SUPPLY—Source, Namakagon river; system, direct pumping; pumping engines, dy cap 1,250,000 gals; 60 hydrants; pipe 44 miles, 4 to 10 in dia; 31 valves; pressure, domestic 35, fire 100 pounds; waterworks owned by city; cost to construct \$28,000; ann expenses \$2,200. Supt, B. W. Skeede.

Horicon, Dodge Co., population 1,500; fire area 46 blocks; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, all kinds; hose, cotton good 2,000 ft, linen good 500 ft; value of fire department equipment \$4,000; value of buildings occupied \$6,000; total ann expenses of department \$1,000; total membership 35, volunteers; bell and whistle alarm. Foreman, Wm. Cummings.

WATER SUPPLY—Source, Rock river and reservoir; reservoir cap 3,800 bbls.

Hudson, St. Croix Co., population 4,000; buildings, brick, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,000 ft, rubber good 1,000 ft; value of fire department equipment \$8,000; value of buildings occupied \$5,000; ann expenses \$350; total membership 25, volunteers. Chief engineer, Jas. Pennman.*

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir; reservoir cap 200,000 gals; 2 pumping engines, dy cap 2,500,000 gals; 57 hydrants; pipe 6 miles, 8 to 12 in dia; 35 valves; 162 taps; pressure 91 pounds; waterworks owned by city; cost to construct \$40,000, to date \$56,000; ann expenses \$4,000. Supt, C. P. Coon; Joseph Beach.

Murley, Ashland Co., population 2,267; fire area 30 blocks; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 5,000 ft, inferior 1,000 ft; total ann expenses of department \$4,300; total membership 34, paid full time 2, volunteers 33; Gamewell alarm. Chief engineer, E. E. Jussen.

WATER SUPPLY—Source, Montreal river; system, pumping to standpipe; standpipe cap 250,000 gals; pumping engines, dy cap 2,000,000 gals; 40 hydrants; pipe 3½ miles, 12 to 4 in dia; pressure

100 pounds; waterworks owned by company. Supt, J. S. Kennedy.

Jamesville, Rock Co., population 15,000; fire area 1,000 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 1½ and 2 stories; metallic roofs principally; fireworks ordinance. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages, 2 hose wagons, 1 fire patrol; hose, cotton 3,800 ft, rubber good 2,050 ft, inferior 1,800 ft; 8 horses; value of equipment \$15,000; value of buildings occupied \$12,000; ann expenses \$11,000; membership 20, paid full time 6, part time 14, volunteers 20; Gamewell alarm; 36 street boxes. Chief engineer, John C. Spencer.

WATER SUPPLY—Source, flowing artesian well; system, pumping to standpipe; receiving reservoir cap 800,000 gals, standpipe cap 314,000 gals; pumping engines, dy cap 4,800,000 gals; 215 hydrants; pipe 34 miles, 8 to 16 in dia; 168 valves; 180 meters; 1,200 taps; pressure, domestic 60 to 80, fire 80 to 150 pounds; Elson pressure recording gauge; waterworks owned by company. Supt, W. C. Mitchell.

Jefferson, Jefferson Co., population 2,287; mercantile buildings, brick, 2 and 3 stories; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; slamese couplings used; hose, rubber good 1,500 ft, inferior 300 ft; value of fire department equipment \$12,000; value of buildings occupied \$2,500; total ann expenses of department \$850; total membership 90, paid 3; bell alarm. Chief engineer, O. F. Roessler.

WATER SUPPLY—Source, Rock and Crawfish rivers. City clerk, G. J. Loetz.

Juneau, Dodge Co., population 1,000; mercantile buildings, brick veneered, 2 stories; private, brick and wood, 1½ and 2 stories; tin and iron roofs; fireworks ordinance for 2 streets. Fire department—1 hand engine, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 350 ft, rubber good 450 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,500; total membership 60, volunteers; bell alarm. Chief, F. W. Lueck.

WATER SUPPLY—Source, 9 reservoirs, cap from 100 to 400 bbls each.

Kaukauna, Ontonagon Co., population 7,000; fire area 250 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carts, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 900 ft, poor 500; 4 horses, value \$900; value of fire department equipment \$8,200; value of buildings occupied \$2,500; total membership 26; bell alarm. Chief, Herman Schreiber.

WATER SUPPLY—Source, Fox river; 8 reservoirs and wells. (Waterworks contemplated.)

Kenosha, Kenosha Co., population 9,000; fire area 1½ by 2 miles; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, cotton good 3,100 ft, rubber good 1,600, poor 800 ft; 7 horses; value of fire department equipment \$11,675; value of buildings occupied \$14,500; total ann expenses of department \$5,168; total membership 68, volunteers; Gaynor alarm; 8 street boxes. Chief engineer, J. S. Barr.

WATER SUPPLY—Source, 7 flowing artesian wells; system, gravity; 36 hydrants; pipe 8½ miles, 2 to 6 in dia; 16 valves; 20 meters; pressure 35 to 32 pounds; waterworks owned by company; cost to construct \$40,000; ann expenses \$1,200. Supt, E. G. Hazleton.

Kewaunee, Kewaunee Co., population 1,500; fire area 1 sq mile; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 200 ft, rubber good 350 ft, inferior 200 ft, leather good 300 ft, inferior 1,300 ft; value of fire department equipment \$2,000; total ann expenses department \$1,060; total membership 40, volunteers; fire patrol supported by city. Chief, A. Kacarsosky.

WATER SUPPLY—Source, cisterns and springs; 1-8 mile of street mains.

Millbourn City, Columbia Co., population 1,100; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, linen unlined good 1450 ft; value of equipment \$650; value of buildings occupied \$1,000; membership 30, volunteers; electric bell alarm. Foreman, Frank R. Snider.

WATER SUPPLY—Source, wells and river; system, pumping to stand tanks; 2 tanks, cap 40,000 gals; pumping engines, cap 40,000 gals in 12 hours; 16 hydrants; pipe 2½ miles, 6 to 4 in dia; 10 valves; pressure 32 pounds; works owned by city; cost to construct \$12,000. Supt. G. M. Marshall.

La Crosse, LaCrosse Co., population 30,000; fire area 829-100 miles; mercantile buildings, brick, stone and iron, 2 to 6 stories; private, brick, stone and wood, 1 to 4 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 6 chemical extinguishers, 3 hook and ladder trucks, 8 hose carriages, 5 hose wagons, 1 chief's buggy, 3 hose sleighs, 1 chief's sleigh, 4 supply wagons, 4 supply sleighs, 3 H and L sleighs; hose, cotton good 2,100 ft, fair 500 ft, rubber 12,000 ft; 17 horses, value \$4,100; value of fire department equipment \$54,000; value of buildings occupied \$37,550; total ann expenses of department \$20,686; total membership 112, paid full time 12, paid part time 101; Gaynor alarm; 100 street boxes; 4 hose companies; 3 hook and ladder companies. Chief engineer, A. J. Simon-ton.

WATER SUPPLY—Source, Mississippi river; system, direct pumping; pumping engines, dy cap 6,500,000 gals; 304 hydrants; pipe 29 11-100 miles, 6 to 24 in dia; 178 valves; 3 meters; 2,081 tape; pressure, domestic 60, fire 100 to 120 pounds; Edson pressure recording gauge; waterworks owned by city; cost to construct to date \$252,000; ann expenses \$16,000. Chairman of public works, E. J. Kelly; comma, Jacob Hohn.

Lake Geneva, Walworth Co., population 2500; fire area 600 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, buckets, etc; hose, rubber 600 ft, cotton good 500 ft; 4 horses, value \$400; value of fire department equipment \$2,000; value of buildings occupied \$800; total membership 35; telephone alarm. Fire marshal, W. N. Johnson.

WATER SUPPLY—Source, wells; system, pumping to tank and direct; tank cap 100,000 gals; pumping engines, dy cap 1,500,000 gals; 55 hydrants; pipe 6 miles, 4 to 10 in dia; 10 valves; 136 tape; pressure, domestic 60, fire 200 pounds; waterworks owned by company; cost to construct \$97,000. Supt. M. Nippert.

Lake Mills, Jefferson Co., population about 1,200; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft; value of fire department equipment \$500; value of buildings occupied \$100; total membership 36, volunteers; bell alarm. Captain, Paul Genicks.

Lancaster, Grant Co., population 1,800; fire area 160 acres; mercantile buildings, brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hand engines, 1 chemical and water engine on wheels combined, 1 chemical extinguisher, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 550 ft, cotton good 450 ft; value of fire department equipment \$1,200; total membership 100, volunteers; bell alarm. Chief, Harry Poch.

WATER SUPPLY—Source, 5 cisterns.

Madison, Dane Co., population 15,000; fire area 100 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—2 steam fire engines, 3 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, 2 hose wagons, slammess couplings used; hose, rubber good 4,000 ft, inferior 500 ft, cotton good 1,500 ft; 8 horses, value \$1,500; value of equipment \$10,400;

buildings owned, value \$15,000; total expenses for past year \$7,769; membership 66, paid full time 4, part time 62; electric alarm; 22 street boxes. Chief engineer, Chas. Bernard, Jr.

WATER SUPPLY—Source, artesian wells; system, direct pumping; pumping engines, dy cap 4,000,000 gals; 146 hydrants; pipe 28 1-3 miles, 3 to 16 in dia; 175 valves; 690 meters; 1,709 tape; pressure, domestic 85, fire 120 pounds; waterworks owned by city; cost to construct to date \$250,703.67; ann expenses \$10,458. Supt. John B. Helm.

Mamitowec, Manitowoc Co., population 7,710; fire area 1,440 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3,900 ft, rubber good 1,000 ft, inferior 400 ft; 6 horses, value \$900; value of fire department equipment \$12,500; value of buildings occupied \$5,000; total ann expenses of department \$3,000; total membership 15, paid part time 12; Gamewell alarm; 14 street boxes. Chief engineer, August Dueno.

WATER SUPPLY—Source, Lake Michigan and river; system, pumping to standpipe and direct; 2 pumping engines, dy cap 3,000,000 gals; 149 hydrants; pipe 14½ miles, 6 to 16 in dia; 136 valves; 27 meters; 474 tape; waterworks owned by company; cost to construct to date \$200,000; ann expenses \$3,671. Supt. Col. H. Graham.

Marinette, Marinette Co., population 15,000; fire area 1 mile by 2½ long; buildings, brick and wood, 2 and 3 stories; only iron roofs in business section. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 four-wheel hose wagon, 3 supply wagons, 2 hose sleighs, 1 two-wheel hose cart; hose, rubber good 4,000 ft; 9 horses, value \$1,800; 3 buildings occupied; total ann expenses of department \$15,388; total membership 24, paid full time 7, paid part time 17; Gamewell alarm; 40 street boxes. Chief engineer, J. Hodgins.

WATER SUPPLY—Source, Green bay; system, direct pumping; pumping engines, dy cap 4,000,000 gals; 153 hydrants; pipe 20 5-10 miles, 8 to 20 in dia; 60 valves; 3 water meters; pressure 50 to 140 pounds; waterworks owned by company; cost to construct \$180,000. Supt. M. Kirkpatrick.

Marshfield, Wood Co., population 4,000; buildings, brick and wood, 2 stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber 1,000 ft, cotton good 1,000 ft; total membership 50, volunteers; bell and steam whistle alarm. Chief, L. F. Baxter.

WATER SUPPLY—Source, wells and springs; system, pumping to standpipe; reservoir cap 300,000 gals; standpipe 20 ft x 120 ft; pumping engines, dy cap 2,250,000; hydrants 70; pipe 7 miles, 6 to 10 in dia; 38 valves; 6 meters; 96 tape; pressure, domestic 55, fire 150 pounds; works owned by company; cost to construct \$110,000; ann expenses \$4,250. Secy and treas, W. H. Fritshman.

Manitowish, Juneau Co., population 1,800; fire area 180 acres; buildings, stone, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, inferior 200 ft; value of fire department equipment \$3,500; total ann expenses of department \$400; total membership 100, volunteers; bell alarm. Chief engineer, J. T. Hansen; chairman, C. H. Stevens.

WATER SUPPLY—Source, rivers, wells; 2 reservoirs.

Mayville, Dodge Co., population 1,800; fire area 600 acres; buildings, wood and brick, 1 to 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 800 ft, rubber inferior 300 ft; value of fire department equipment \$1,500; total ann expenses of department \$100; total membership 50; bell alarm. Chief engineer, Louis Leigler.

WATER SUPPLY—Source, river. City clerk, F. Schwartz.

Maximilian, Dane Co., population 1,034; fire area 350 acres; mercantile buildings, brick and wood, 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook

and ladder truck, 2 hose carriages; hose, cotton good 200 ft, rubber good 1,000 ft, inferior 300 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,500; total ann expenses of department \$1,500; total membership 50, volunteers; bell alarm; 1 engine company, 1 hook and ladder company; 1 hose company. Chief, H. R. Leonard.

WATER SUPPLY—Source, 10 drive wells; system, gravity, pumping to reservoir, cap 4,000 gals; water-power pump; 10 hydrants; pipe 1½ miles, 4 and 6 in dia; 4 valves; works owned by city; cost to construct \$3,500. Pres, J. A. Schmitz.

Medford, Taylor Co., population 1,800; fire area 160 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,600 ft, rubber good 500 ft, linen good 100 ft; value of fire department equipment \$4,800; value of buildings occupied \$3,000; total membership 75, volunteers; 2 engine companies, 1 hook and ladder company, 2 hose companies; bell alarm. Chief, E. L. Urquhart.

WATER SUPPLY—Source, wells and river.

Menasha, Winnebago Co., population 5,300, fire area 1½ sq miles; buildings, brick and wood; 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon, force pumps, slamese couplings used; hose, cotton good 1,100 ft, rubber good 900 ft, inferior 300 ft, owned by private parties 2,800 ft; value of fire department equipment \$7,500; value of buildings occupied \$10,000; total ann expenses of department \$2,400; total membership 37, paid 2, volunteers 36; bell and whistle alarm. Chief, P. H. Gardner.

WATER SUPPLY—Source, river, canals and lake, 8 cisterns. City clerk, P. J. Robertson.

Menominee, Dunn Co., population 7,200; fire area 40 acres; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carts; hose, rubber 2,000 ft; value of fire department equipment \$4,500; value of buildings occupied \$700; total ann expenses of department \$1,200; total membership 49, paid part time; bell alarm. Chief, A. B. Bockell.

WATER SUPPLY—Source, springs and Red Cedar river; system, pumping to standpipe and direct; standpipe cap 88,000 gals; 2 pumping engines, dy cap 1,000,000 gals; 110 hydrants; pipe 10½ miles; pressure, domestic 65, fire 150 pounds; waterworks owned by company; cost to construct \$125,000; ann expenses est \$2,500. Supt, E. H. Weber.

Merrill, Lincoln Co., population 8,000; fire area 3 by 1 mile square; buildings, brick and wood, 2 stories. Fire department—2 chemical engines on wheels, 1 hook and ladder truck, 4 hose carriages, 2 supply and 1 hand cart; hose, rubber inferior 1,500 ft, cotton good 3,000 ft; value of fire department equipment \$6,000; total membership 38, volunteers; telephone, steam whistle and bell alarm. Chief engineer, Richard King.*

WATER SUPPLY—Source, Prairie river; system, pumping to standpipe; 2 pumping engines, dy cap 4,000,000 gals; 128 hydrants; pipe 14 miles, 5 to 12 in dia; waterworks owned by company; cost to construct \$98,000. Supt, M. L. Wright.*

Milwaukee, Milwaukee Co., population 266,200; buildings, brick and wood, 2 to 14 stories; fireworks ordinance; causes of fire investigated. Fire department—15 steam fire engines in use (2 in reserve), 7 chemical engines, 7 hook and ladder trucks in use (1 in reserve), 16 hose wagons in use, (2 in reserve) 1 watertower, 2 fire boats, 7 sets pomper ladders, slamese couplings used, 18 supply and exercise wagons; hose, 50,000 ft; 136 horses; value of fire department equipment including buildings \$700,000; total membership 276, paid full time; Gamewell central office alarm; 280 street boxes. Chief engineer, Jas. Foley. Fire patrol maintained by insurance companies. Supt, M. J. Curtin.

WATER SUPPLY—Source, Lake Michigan; system, pumping to reservoir and standpipe and direct; reservoir cap 21,000,000 gals; standpipe cap 200,000 gals; pumping engines, dy cap, low service 48,000,000 gals, high service 17,000,000 gals;

hydrants 1,950; pipe 255 miles, 6 to 36 in dia; 1,800 valves; 11,565 meters; pressure 15 to 80 pounds; Edeon pressure recording gauge; waterworks owned by city; cost to construct to date \$4,164,000; ann expenses \$125,000. City engineer, G. H. Benzenberg.

Mineral Point, Iowa Co., population 3,000; fire area 2 blocks by 4; mercantile buildings, stone and brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. No fire department—bucket brigade.

WATER SUPPLY—Source, wells.

Monroe, Green Co., population 3,768; buildings, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages; hose, cotton good 1,600 ft, rubber 500 ft; total membership 110, volunteers. Chief engineer, Joshua Shief.

WATER SUPPLY—Source, well; system, pump to reservoir; cap of elevated tank 100,000 gals; pumping engines, dy cap 2,000,000 gals; 72 hydrants; pipe 7 miles, 12 to 4 in dia; valves 20; 400 taps; pressure, domestic 60, fire 140 pounds; works owned by company; cost to construct \$75,000; ann expenses \$1,500. Pres, W. H. Wheeler.

Needah, Juneau Co., population 1,708; fire area 1,200 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; shingle and iron roofs; fireworks ordinance. Fire department—2 hose carriages; hose, linen good est 1,500 ft. Chief, J. W. Babcock.*

WATER SUPPLY—System, stationary steam pumps; pipe covering main street and most valuable property.*

Neenah, Winnebago Co., population 5,083; fire area 250 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, linen good 1,000 ft, rubber good 1,150 ft, leather good 250 ft, old not used 750 ft; value of fire department equipment \$12,000; value of buildings occupied \$28,000; total ann expenses of department \$2,000; total membership 96, volunteers; bell alarm; 3 fire companies. Chief engineer, Fred Peck.*

WATER SUPPLY—Source, Lake Winnebago; system, pumping to standpipe and direct; standpipe cap 270,000 gals; pumping engines, dy cap 2,500,000 gals; hydrants 68; pipe 7 miles, 14 to 4 in; taps 40; pressure, domestic 50, fire 115 pounds; waterworks owned by city; original cost to construct \$60,050; expenses of construction to date \$65,000. Supt, W. P. Peckham.

Neillsville, Clark Co., population 1,936; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carts; hose, good 2,700 ft; total membership 50.

WATER SUPPLY—Source, creek; system, pumping to standpipe; standpipe cap 96,000 gals; pumping engines, dy cap 500,000 gals; hydrants 38; pipe 10 miles, 4, 6 and 8 in; taps 40; valves 6; pressure, domestic 50 to 96, fire 96 pounds; waterworks owned by city; original cost to construct \$20,000. Supt, R. F. Kornitz.

New Lisbon, Juneau Co., population 1,400, buildings, brick, stone and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—20 chemical extinguishers, 1 hose carriage, hooks, ladders and buckets; hose, rubber good 250 ft; value of fire department equipment \$300. Chief, A. J. Haire.

WATER SUPPLY—Source, river and wells.

New London, Waupaca Co., population 3,000; fire area 120 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 1 1½ stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 1,200 ft, inferior 400 ft; value of fire department equipment \$5,050; value of buildings occupied \$1,000; total ann expenses of department \$300; total membership 80, volunteer members; bell alarm. Chief engineer, J. Virohon.

WATER SUPPLY—Source, rivers.

New Richmond, St. Croix Co., population

1,800; fire area 10 acres; mercantile buildings, brick and stone, 1 and 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical extinguishers, 2 hose carriages; hose, cotton good 900 ft; value of fire department equipment \$225; total membership 23, volunteers; bell and steam whistle alarm. Chief engineer, L. M. Winter.

WATER SUPPLY—Source, artesian well; system, pumping to standpipe and direct; standpipe cap 64,000 gals; pumping engine, dy cap 750,000 gals; 15 hydrants; pipe 2½ miles, 8, 6 and 4 in dia; 10 valves; 3 meters; 50 taps; pressure, domestic 40, fire 100 pounds; waterworks owned by city; original cost to construct \$18,000. Supt. E. H. Maakrey.

Oconomowoc, Waukesha Co., population 3,500; fire area 20 miles; buildings, brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 3 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 bucket cart; hose, rubber good 2,800 ft; 2 hoses, value \$300; value of fire department equipment \$5,600; value of buildings occupied \$33,000; total ann expenses of department \$300; total membership 50, volunteers, paid part time; bell alarm; 3 fire companies. Chief, B. S. Young.*

WATER SUPPLY—Source, wells, spring and 2 lakes; system, pump to tank, cap 6,000 gals. Mayor, W. R. Fay; city clerk, D. B. Smith.

Oconto, Oconto Co., population 6,000; fire area 2 sq miles; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, siamese couplings used; hose, rubber good 3,000 ft; 4 hoses, value \$1,150; value of fire department equipment \$16,000; value of buildings occupied \$9,500; total ann expenses of department \$3,000; total membership 13, paid full time 3, paid part time 8; Gamewell alarm; 18 street boxes. Chief, Chas. Hall.

WATER SUPPLY—Source, 2 artesian wells; system, pumping direct; pumping engine, dy cap 500,000 gals; 108 hydrants; pipe 8½ miles; pressure 40 to 150 pounds; waterworks owned by company. Supt. E. G. Mullen.

Omoro, Winnebago Co., population 1,232; fire area 200 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; hose, cotton good 1,200 ft, rubber good 500 ft; 2 hoses, value \$400; value of equipment \$9,000; value of buildings occupied \$3,000; membership 45, volunteers; bell alarm. Chief, F. W. Stanley.

WATER SUPPLY—Source, Fox river and artesian wells; system gravity; 9 reservoirs, total cap 112,000 gals.

Onalaska, La Crosse Co., population 3,000; fire area 40 acres; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 1,500 ft; value of buildings occupied \$3,800; bell alarm; membership 16, volunteers. Capt. G. H. Welch.

WATER SUPPLY—Will put in system to cost \$15,000 this year.

Oshkosh, Winnebago Co., population 30,000; fire area 200 acres; mercantile buildings, brick and stone, 2 stories; private, wood and brick, 2 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hook and ladder trucks, 5 hose carts, 2 hose wagons, 1 hose carriage, siamese couplings used; mills and factories own 560 pumps; hose, cotton good 9,500 ft, inferior 1,100 ft, rubber new 1,800 ft; 15 hoses; value of fire department equipment \$29,100; value of 5 buildings occupied \$80,000; total ann expenses of department \$28,000; total membership 29, paid full time; telephone and telegraph alarm; 40 street boxes; 40 police boxes. Chief engineer, Robert A. Brauer.

WATER SUPPLY—Source, artesian wells and Lake Winnebago; system, direct pumping; 2 pumping engines, dy cap 10,000,000 gals; 325 hydrants; pipe 36 miles, 4 to 16 in dia; 135 valves;

32 meters; 1,503 taps; pressure, domestic 40, fire 90 to 120 pounds; waterworks owned by company; cost to construct to date \$500,000; ann expenses \$12,000. Supt. B. L. Edgerton.

Pepin, Pepin Co., population 500; fire area 200 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 chemical extinguishers, hooks and ladders, a few fire pumps.

WATER SUPPLY—Source, driven wells, Lake Pepin and cisterns.

Peshigo, Marinette Co., population 2,500; fire area 120 acres; buildings, wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, linen good 600 ft, rubber good 600 ft, cotton good 800 ft; value of fire department equipment \$5,000; value of buildings occupied \$700; total membership 25, volunteers; triangle alarm. Chief engineer, Chas. Wenzel.

WATER SUPPLY—Source, Peshigo river, creek; 3 tanks. Town clerk, W. W. Hall.

Plattville, Grant Co., population 2,740. Fire department—1 chemical engine on wheels, 1 hook and ladder truck; hose, rubber good 500 ft; total membership 125, volunteers. Chief, R. R. Friedrich.

WATER SUPPLY—Source, wells and cisterns.

Plymouth, Sheboygan Co., population 2,300; fire area 640 acres; buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,600 ft, rubber good 800 ft; value of fire department equipment \$4,500; value of buildings occupied \$5,000; total membership 140, volunteers; bell alarm; 3 fire companies, 1 engine company, 1 hook and ladder company. Chief engineer, Theo. F. Ackermann.

WATER SUPPLY—Source, river, creek and 7 cisterns.

Portage, Columbia Co., population 4,000; buildings, brick, 1½ to 3 stories. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, good 1,600 ft, inferior 500 ft; 2 hoses, value \$400; value of fire department equipment \$9,000; value of buildings occupied \$6,000; membership 32, paid full time 2, paid part time 30; bell alarm. Chief engineer, E. S. Purdy.

WATER SUPPLY—Source, Wisconsin river; system, pumping to standpipe and direct; standpipe cap 78,000 gals; pumping engine, dy cap 2,000,000 gals; 82 hydrants; pipe 8 miles, 6 to 14 in dia; 22 meters; waterworks owned by company; cost to construct \$135,000; ann expenses \$3,800. Supt. J. M. Russell.

Porter's Mills, Eau Claire Co., population 1,900; fire area 100 acres; mercantile buildings, wood, 2 stories; private, wood, 1 story; wooden roofs permitted. Fire department—1 hook and ladder truck, 1 hose carriage; hose, rubber good 200 ft, cotton good 2,300 ft; total membership 30, volunteers. Chief engineer, Jos. E. Long.

WATER SUPPLY—Source, well; system, pumping direct, cap 30 ft deep and 20 in dia; 25 hydrants; pipe 2.1 miles, 4, 6, 8 in dia; pressure, domestic 60, fire 100 pounds; waterworks owned by company; original cost to construct \$10,000. Supt. J. H. Brown.

Port Washington, Ozaukee Co., population 2,200; fire area 4,000 acres; mercantile buildings, brick, 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds; hose, cotton good 1,100 ft; value of fire department equipment \$2,600; value of buildings occupied \$3,550; total ann expenses of department \$700; total membership 57, volunteers; bell alarm. Chief engineer, John T. Bosser.

WATER SUPPLY—Source, wells, artesian wells and cisterna.

Prairie du Chien, Crawford Co., population 3,500; fire area 1,000 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; no fireworks ordi-

nance. Fire department—4 hand engines, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 3,000 ft; value of fire department equipment \$6,000; value of buildings occupied \$1,800; total ann expenses of department \$500; total membership 180, volunteers; bell alarm. Chief engineer, Charles Lindner.

WATER SUPPLY—Source, flowing artesian wells; system, gravity; 10 hydrants; pipe 1 mile, 6 in dia; waterworks owned by company; cost to construct \$8,000; ann expenses \$100. Supt. F. H. Poehler.

Prescott, Pierce Co., population 1,000; fire area 300 acres; buildings, brick, stone and wood, 1½ to 4 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage, 1 supply wagon; hose, linen 650 ft; value of fire department equipment \$900; value of buildings \$500; membership 47, volunteers; bell alarm. Chief, John Saxine.

WATER SUPPLY—Source, wells and river.*

Princeton, Green Lake Co., population 1,000; fire area 2,500 acres; buildings, stone, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 900 ft; value of fire department equipment \$1,700; total membership 60, volunteers; bell alarm. Chief engineer, J. E. Fleming.*

WATER SUPPLY—Source, river, 1 reservoir; 100 barrels. Mayor, Wm. F. Leudtke; city clerk, A. H. Myers.

Racine, Racine Co., population 21,014. Fire department—4 steam fire engines, 1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages; hose, good 8,300 ft; 18 horses; total membership 46; telegraph alarm; 26 street boxes. Chief engineer, D. S. Abesser.*

WATER SUPPLY—Source, Lake Michigan; system, pumping to standpipe and direct; standpipe cap 330,480 gals; pumping engines, dy cap 4,500,000 gals; 366 hydrants; pipe 35 miles, 6 to 24 in dia; 340 valves; 284 meters; pressure, domestic 60, fire 125 pounds; Edison pressure recording gauge; waterworks owned by company. Pres, Henry E. Cobb; supt, Wm. H. Laing.

Reedsburg, Sauk Co., population 2,000; fire area 2 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, inferior 350 ft; value of fire department equipment \$1,800; value of buildings occupied \$3,000; total membership 54, volunteers; bell alarm. Chief engineer, John H. Claridge.

WATER SUPPLY—Source, rivers and wells; 6 reservoirs. Mayor, A. L. Harris. (Standpipe system of works, with 30 hydrants; 5 miles of pipe to cost \$28,000 will be put in this year.)

Rhineland, Ousida Co., population 4,298; fire area 480 acres; mercantile buildings, brick and wood, 2 and 2½ stories; private, brick and wood, 2 and 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,000 ft, cotton good 500 ft; value of equipment \$2,150; value of buildings \$1,500; ann expenses \$1,500; total membership 45, volunteers; Gamewell alarm; 12 street boxes. Chief, John H. Schroeder.*

WATER SUPPLY—Source, Wisconsin river; system, pumping to standpipe. cap 500,000 gals; pumping engines, dy cap 3,000,000 gals; 84 hydrants; 28 valves; 6 meters; pipe 7 miles; works owned by company; cost to construct \$90,000; ann expenses \$,000. Pres, John Bans.*

Rice Lake, Barron Co., population 3,500; fire area 40 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 12 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,800 ft, inferior 200 ft, cotton good 200 ft; value of fire department equipment \$6,000; value of buildings occupied \$500; total ann expenses of department \$3,000; total membership 30, volunteer members; bell alarm. Chief engineer, D. P. Hoag.

WATER SUPPLY—Source, drilled wells; system, pumping direct; pumping engines, dy cap 750,000

gals; hydrants 20; pipe 2 miles, 10 to 4 in; taps 34; pressure, domestic 60, fire 90 pounds; waterworks owned by company; original cost to construct \$19,000. Supt. O. P. Plynton.

Richland Center, Richland Co., population 2,500; fire area 320 acres; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 800 ft, inferior 400 ft, cotton good 800 ft; value of fire department equipment \$1,000; total membership 70, volunteers; bell alarm. Chief engineer, O. J. Burnham.*

WATER SUPPLY—Source, artesian wells; system, pumping to reservoir, cap 127,000 gals; pumping engines, dy cap 60,000 gals; 41 hydrants; pipe 5½ miles, 4 to 8 in dia; 33 valves; 200 taps; pressure 70 pounds; waterworks owned by city; cost to construct \$22,000; ann expenses \$1,000. Supt. E. G. Ostrander.

Ripon, Fond du Lac Co., population 3,800; mercantile buildings, stone and brick, 2 stories; private, wood, 2 stories; fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 1,400 ft, poor 100 ft; value of fire department equipment \$6,000; total ann expenses of department \$350; total membership 55, volunteers; chief paid; bell alarm. Chief engineer, F. W. Allen.

WATER SUPPLY—Source, springs; system, pumping to standpipe, cap 150,000 gals; pumping engines, dy cap 3,000,000 gals; 80 hydrants; pipe 6½ miles, 14 to 6 in dia; 50 valves; 2 meters; 340 taps; pressure 60 to 140 pounds; waterworks owned by company. Supt. T. D. Stone.

River Falls, Pierce Co., population 2,000; fire area 160 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 750 ft; value of fire department equipment \$1,000; total membership 40, volunteer members; bell alarm. Chief engineer, J. S. Wadsworth.

WATER SUPPLY—Source, artesian well; system, pumping to reservoir; reservoir cap 200,000 gals; hydrants 37; pipe 4 miles, 10 to 4 in; valves 30; pressure 70 pounds; waterworks owned by city; cost to construct \$20,000. Chairman of com, E. Ballard. (Works not quite completed.)

Sauk City, Sauk Co., population 917; buildings, wood, brick and stone. Fire department—2 hand engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 500 ft, inferior 600 ft; value of fire department equipment \$2,000; total membership 50, volunteers; bell alarm. Chief, engineer, Paul Lachmund.*

WATER SUPPLY—Source, Wisconsin river and 5 wells. Mayor, Wm. Dreesen.*

Shawano, Shawano Co., population 1,505; fire area 180 acres; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, linen good 500 ft, rubber good 250 ft; value of fire department equipment \$1,000; value of buildings occupied \$700; total membership 50, volunteers; bell alarm; 1 fire company, 1 hook and ladder company. Chief engineer, D. E. Westcott.

WATER SUPPLY—Source, wells and reservoirs.

Sheboygan, Sheboygan Co., population 20,000; fire area 16,000 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 3 hose wagons; hose, cotton good 4,500 ft, inferior 500 ft; 8 horses, value \$1,500; value of fire department equipment \$40,000; value of buildings occupied \$20,000; total ann expenses of department \$20,000; total membership 20, paid full time 20; Gaynor alarm; 32 street boxes. Chief engineer, John Sandrock.

WATER SUPPLY—Source, Lake Michigan; system, pumping to standpipe; standpipe cap 329,800 gals; pumping engines, dy cap 8,500,000 gals; 305 hydrants; pipe 24 2-10 miles, 4 to 20 in dia; pressure, domestic 60, fire 90 pounds; waterworks owned by company; cost to construct \$230,000. Pres and supt, W. D. Cockburn.

Sparta, Monroe Co., population 3,000; fire area 1 mile; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 800 ft, linen good 800 ft; value of fire department equipment \$6,000; value of buildings occupied \$7,000; total ann expenses of department \$700; total membership 25; bell alarm, Chief engineer, W. J. Summerfield.

WATER SUPPLY—Source, creek and 6 cisterns.

Spring Green, Sauk Co., population 800; fire area 80 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 hand engines, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 300 ft, cotton good 800 ft; value of fire department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses of department \$32; total membership 34, paid part time 3, volunteer members 31; fire gong alarm. Chief engineer, G. F. Post.

WATER SUPPLY—Source, drive wells; system, pumping direct; pumping engines, cap 250 gals per min; 7 hydrants; pipe 2,000 ft, 4 in; pressure, fire 150 pounds; waterworks owned by city; original cost to construct \$2,800; expenses of construction to date \$4,500. Supt. C. Scholl.

Stevens Point, Portage Co., population 9,000; mercantile buildings, wood; stone and brick, 2 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose wagons, slamese couplings used; hose, cotton good 5,000 ft, rubber good 1,000 ft; 4 horses, value \$800; value of fire department equipment \$1,000; value of 3 buildings occupied \$6,000; total membership 10, paid full time 9, part time 1; telephone alarm. Chief engineer, W. L. Bronson.

WATER SUPPLY—Source, well and Wisconsin river; system, pumping to standpipe and direct; standpipe cap 329,011 gals; pumping engines, dy cap 4,000,000 gals; 143 hydrants; pipe 11 1-3 miles, 6 to 16 in dia; 75 valves; 80 meters; pressure, domestic 50 to 68, fire 65 to 125 pounds; waterworks owned by company; cost to construct \$175,000. Supt. W. O. Lamoreux.

Stoughton, Dane Co., population 2,470; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, rubber good 2,000 ft, inferior 500 ft, linen rubber lined good 400 ft, inferior 400 ft; value of equipment \$5,000; ann expenses \$125; membership 36, volunteers; bell alarm; 3 fire companies. Chief engineer, W. S. Wood.

WATER SUPPLY—Source, well and river; system, pumping to standpipe; standpipe cap 30,000 gals; pumping engines, dy cap 2,000,000 gals; 58 hydrants; pipe 7 miles, 4 to 10 in; 286 taps; 36 valves; pressure, domestic 75, fire 150 pounds; waterworks owned by city; original cost to construct \$30,000; expenses of construction to date \$56,000; ann expenses \$1,500. Supt. Julius Fix.

Sturgeon Bay, Door Co., population 2,195; buildings, wood and brick, 2 and 3 stories; wooden roofs permitted. Fire department—2 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 1,675 ft, rubber good 2,500 ft; 2 horses; value of fire department equipment \$4,000; total ann expenses of department \$1,650; total membership 33, paid part time 12, volunteers 26; bell alarm. Chief engineer, Henry Hahn.

WATER SUPPLY—Source, cisterns and bay; 14 reservoirs, cap 4,500 bbls. City clerk, F. J. Hamilton.

Superior, Douglas Co., population 30,000; fire area 180 acres; mercantile buildings, wood, brick and stone, 1 to 5 stories; private, brick and wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical engines on wheels, 14 chemical extinguishers, 3 hook and ladder trucks, 1 aerial truck, 6 hose wagons, all kinds, 1 supply wagon; hose, cotton 10,400 ft, rubber good 700 ft, inferior 300 ft; 24 horses, value \$8,000; value of fire department equipment \$49,430; value of buildings occupied \$37,000; total ann expenses of depart-

ment \$55,510; total membership 57, paid full time; Gamewell alarm; street boxes 47. Chief engineer, J. P. McGill.

WATER SUPPLY—Source, Lake Superior; system, direct dumping; pumping engines, dy cap 6,000,000 gals; 637 hydrants; pipe 40 miles, 24 to 4 in dia; 122 valves; 120 meters; pressure, domestic 75, fire 120 pounds; Edson pressure recording gauge; waterworks owned by company; cost to construct \$700,000; ann expenses \$12,000. Gen'l manager, A. A. Cross.

Tomah, Monroe Co., population 2,000; fire area 3 blocks; buildings, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 6 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 700 ft, inferior 200 ft; value of fire department equipment \$5,000; value of buildings occupied \$5,000; total ann expenses of department \$400; total membership 50, volunteers; bell alarm. Chief engineer, J. H. Smith.

WATER SUPPLY—Source, wells.*

Tomahawk, Lincoln Co., population 4,000 fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—2 hose carriages; hose, cotton good 1,800 ft, inferior 200 ft; value of equipment \$1,200; total membership 22, volunteers; bell and whistle alarm; 2 fire companies. Chief engineer, Rob't. Thielman.

WATER SUPPLY—Source, spring and river; system, pumping to reservoir, cap 105,000 gals; pumping engines, dy cap 1,000,000 gals; 20 hydrants; pipe 2 miles, 10, 8 and 6 in dia; 12 valves; pressure, domestic 40, fire 80 to 120 pounds; works owned by city; cost to construct \$23,000. Supt. W. P. Wingate.*

Two Rivers, Manitowoc Co., population 2,500. Fire department—1 steam fire engine (owned by Mfg Co.), 1 hook and ladder truck, 1 hose carriage; hose, linen good 1,300 ft; total membership 42, volunteers. Chief engineer, B. Wilkins.*

WATER SUPPLY—Source, wells and river.

Washburn, Bayfield Co., population 4,500; fire area 300 acres; mercantile buildings, brick, stone and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 2,000 ft, cotton good 200 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,500; total ann expenses of department \$1,500; membership 41, volunteers; bell alarm; 1 hook and ladder company, 4 hose companies. Chief, L. Reuter.

WATER SUPPLY—Source, Lake Superior; system, pumping to reservoir; reservoir, cap 1,200,000 gals; pumping engines, dy cap 2,000,000 gals; 67 hydrants; pipe 6 miles, 6 to 12 in dia; pressure 80 pounds; waterworks owned by company; cost to construct \$73,000. Supt. J. L. Smith.

Waterloo, Jefferson Co., population 1,000; fire area 2 sq miles; mercantile buildings, wood and brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers (15 private), 1 hook and ladder truck, 2 hose carriages, 2 hose wagons; hose, cotton good 500 ft, rubber good 1,000 ft; value of fire department equipment \$6,000; total ann expenses of department \$300; total membership 84, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief, F. A. Seaber.

Watertown, Jefferson Co., population 2,755; fire area 65 acres; buildings, brick, 1 to 5 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, rubber good 4,000 ft, inferior 1,000 ft, linen good 200 ft; 6 horses, value \$1,000; value of equipment \$10,000; value of buildings occupied \$7,000; membership 80, paid full time 2, paid part time 3, volunteers 86; telephone alarm. Chief engineer, A. J. Goeldner.

WATER SUPPLY—Source, Rock river, wells and cisterns. City clerk, Henry Bieber.

Waukesha, Waukesha Co., population 8,000; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, stone and brick, 2 stories; wooden roofs not permitted; fireworks ordinance.

Fire department—1 steam fire engine owned by village, 1 by State Industrial School, 1 hook and ladder truck, 2 hose carriages, 2 supply wagons; 1 coal cart, 2 hose couplings used, 1 steam pump attached to mill engine; hose, cotton good 1,000 ft. rubber good 2,000 ft.; value of fire department equipment \$5,000; value of buildings occupied \$6,000; total ann expenses of department \$6,075; total membership 35, volunteers; electric alarm. Chief, Chas. Cook.

WATER SUPPLY—Source, artesian well and springs; system, pumping to standpipe and direct; standpipe cap 350,000 gals; pumping engines, dy cap 4,000,000 gals; 140 hydrants; pipe 18 miles, 4 to 16 in dia; 67 valves; pressure, domestic 65 pounds, fire any required; waterworks owned by company. Pres, Eli Marvin; Supt, Geo. F. Deakin.

Waupaca, Waupaca Co., population 2,127; fire area 1 sq mile; buildings, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 900 ft, inferior 500 ft, cotton good 900 ft; value of fire department equipment \$4,000; value of buildings occupied \$700; total ann expenses of department \$800; total membership 54, paid full time 2; bell alarm. Chief engineer, W. H. Baldwin.*

WATER SUPPLY—Source, river; 7 cisterns, dy cap 500 bbls. (Waterworks contemplated.)

Waupun, Fond du Lac Co., population 3,500; Fire department—1 hand engine, 1 chemical engine on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 800 ft, cotton good 500 ft; value of buildings \$1,000; total membership 75, volunteers. Chief, Prentice Carrington.

WATER SUPPLY—Source, cisterns. Mayor, P. Carrington. (Waterworks contemplated.)

Wausau, Marathon Co., population 10,000; mercantile buildings, brick, 2, 3 and 4 stories; private, wood and brick, 1 to 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose wagons, 2 supply wagons; hose, cotton good 3,500 ft, inferior 350 ft, rubber good 750 ft; 6 horses, value \$1,000; value of fire department equipment \$4,000; value of buildings occupied \$6,800; total ann expenses of department \$12,299; total membership 18, paid full time 8, part time 10; Gamewell alarm; 21 street boxes and tower striker; 1 hook and ladder company, 2 hose companies. Chief, W. Waterhouse.

WATER SUPPLY—Source, wells; system, direct pumping; 2 pumping engines, dy cap 6,000,000 gals; 138 hydrants; pipe 21 miles, 157 valves; 21 meters; 1,007 taps; pressure, domestic 40 to 50, fire 80 to 120 pounds; Edison pressure recording gauge; waterworks owned by city; cost to construct \$132,000; cost of construction to date \$201,789; ann expenses \$4,500. Chairman, F. W. Kieckbush; supt, W. Waterhouse.

West Bend, Washington Co., population 1,500; fire area 500 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; gravel and shingle

roofs; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,750 ft, rubber good 250 ft; value of fire department equipment \$5,800; value of buildings occupied \$1,600; total ann expenses of department \$2,400; total membership 100, volunteers; bell alarm. Chief, Peter Boden.

WATER SUPPLY—Source, river; system, pumping to 6 cisterns. City clerk, H. C. Hauer.*

West De Pere, Brown Co., population 2,100; buildings, brick and wood, 2 stories; wooden roofs not permitted. Fire department—2 steam fire engines, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, 2 supply wagons; hose, rubber good 1,800 ft, inferior 1,200 ft; value of equipment \$15,000; value of buildings occupied \$5,000; ann expenses \$1,200; membership 30, paid full time 2, volunteers; bell and whistle alarm. Chief engineer, H. Collette, Jr.*

WATER SUPPLY—Source, 2 artesian wells; system, gravity; pipe 3 miles; pressure 40 pounds; waterworks owned by company. Supt, J. W. Johnson.*

West Salem, La Crosse Co., population 675; mercantile buildings, brick, 2½ stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical and hand engine on wheels combined, 8 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 500 ft, cotton good 500 ft; value of fire department equipment \$1,200; total membership 43, volunteers. Chief engineer, B. B. Mercereau.

WATER SUPPLY—Source, wells and cisterns.

West Superior, Douglas Co., fire area 27 sq miles; mercantile buildings, stone, brick and wood, 2 to 4 stories; wood, 1½ to 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 chemical engine on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, 8 hose carriages; hose, cotton good 1,500 ft, rubber good 5,000 ft; 6 horses, value \$1,500; value of fire department equipment \$20,000; value of buildings occupied \$2,000; total membership 75, paid full time 10, paid part time 30, volunteers 35; Gamewell alarm; 25 street boxes. Chief, M. F. Kelleher.*

WATER SUPPLY—Source, (see Superior).

Whitewater, Walworth Co., population 4,500; fire area 1,800 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 hook and ladder trucks, 3 hose carriages, 1 hose wagon; hose, rubber good 2,800 ft, inferior 400 ft; value of fire department equipment \$7,000; value of buildings occupied \$6,000; total ann expenses of department \$200; total membership 60, volunteers; bell alarm. Chief engineer, H. S. Salisbury.

WATER SUPPLY—Source, artesian well; system, pumping to tower and direct; reservoir cap 850,000 gals; standpipe cap 160,000 gals; pumping engines, dy cap 3,000,000 gals; 98 hydrants; pipe 9½ miles, 6 to 14 in dia; 60 valves; 6 meters; pressure, domestic 75, fire 125 pounds; cost to construct \$90,000; ann expenses \$4,500. Supt, T. W. Gray.

WYOMING.

Atlantic City, Fremont Co., population 300; buildings, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated.

WATER SUPPLY—Source, spring; system, gravity; pipe 1-2 mile, 1-2 in dia; 4 hydrants; 4 valves; pressure 80 ft; works owned by company; cost to construct \$1,000. Supt, George A. Zimmerman.

Buffalo, Johnson Co., population 1,087; fire area 1 by 1-2 miles; mercantile buildings, brick, iron and wood, 1 story; private, wood, 1 story; wooden roofs not permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,100 ft; value of fire department equipment \$2,000; value of buildings occupied \$2,000; total ann expenses of department \$235; total membership 62, volunteers; bell alarm; 2 fire companies, 1 hook and ladder company, 1 hose company. Chief engineer, Richard J. Daley.

WATER SUPPLY—Source, creek; system, pump to standpipe, cap 32,000 gals; pumping engines d cap 864,000 gals; 5 hydrants; pipe 1-2 miles, d in dia; 3 valves; pressure, domestic 40, fire 70 pounds; waterworks owned by company; cost to construct \$15,900; ann expenses \$720. Supt, E. H. Smock.

Carbon, Carbon Co., population 1,140; fire area 100 acres; mercantile buildings, wood, 1 story; private, wood, 1 story; shingle roofs; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage; hose, cotton good 400 ft; value of fire department equipment \$500; value of buildings occupied \$400; total ann expenses of department \$300; total membership 27, volunteers; hammer struck on steel alarm; 1 hose company. Chief, M. H. Willard.

WATER SUPPLY—Source, springs; system, pumping direct; reservoir cap 30,000 gals; pumping engines, dy cap 50,000 gals; 6 hydrants; pipe 4 miles; 4 meters; works owned by company; cost to construct \$85,000. Supt, J. J. Wycke.*

Cheyenne, Laramie Co., population 12,000; mercantile buildings; brick and stone, 2 and 3 stories; private, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 2 hook and ladder trucks, 7 hose carriages, all kinds; hose, cotton good 5,900 ft, inferior 400 ft; value of fire department equipment \$30,000; value of buildings occupied \$27,000; total ann expenses of department \$4,000; total membership 225, volunteers; Gamewell alarm; 10 street boxes; 1 engine company, 1 hook and ladder company, 2 hose companies. Chief, Frank A. Roedel.

WATER SUPPLY—Source, Crow Creek; system, gravity and direct pumping; storage reservoir, cap 210,000,000 gals; pumping engines, dy cap 4,500,000 gals; 130 hydrants; pipe 25 miles; 79 valves; 800 taps; pressure, domestic 50, fire 150 pounds; waterworks owned by city; cost to construct \$170,000; ann expenses \$5,000. Chairman of com, Frank Bowd; supt Donnell Muller.

Douglas, Converse Co., population 1,000; fire area 25 blocks; mercantile buildings, brick and wood, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hose carriage, ladders, hooks etc; hose, cotton good 750 ft; value of fire department equipment \$1,000; value of buildings occupied \$300; total membership 25, volunteers; bell alarm; 1 hose company. Foreman, Thos. Cook.

WATER SUPPLY—Source, Platte river; system, pumping to reservoir; reservoir cap 50,000 gals; pumping engines, dy cap 30,000 gals; 14 hydrants; pipe 2 3/4 miles, 2 to 8 in dia; 9 valves; 69 taps; pressure, domestic 85 pounds, fire same; works owned by city; cost to construct \$16,000; ann expenses \$1,800. Supt, R. C. Hunt.

Evansston, Uintah Co., population 2,200; fire area 130 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 15 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, cotton good 1,100 ft, rubber good 600 ft; value of fire department equipment \$4,350; value of buildings occupied \$2,600; total ann expenses of department \$400; total membership 83, volunteers; Viaduct Mfg Co alarm; 17 street boxes; 4 fire companies. Chief engineer, N. E. Small.

WATER SUPPLY—Source, Bear river; system, pumping to reservoir; reservoir cap 5,000,000 gals; pumping engines, dy cap 1,250,000 gals; 55 hydrants; pipe 5 miles, 10 to 4 in dia; 11 valves; quality of water good; pressure, domestic 80 to 90, fire 95 to 105 pounds; works owned by city; cost to construct \$30,000. Supt, A. W. Butler.

Fort Russell, Laramie Co., population 600; fire area 50 acres; mercantile buildings, brick and wood, 1 story; private, brick and wood, 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,200 ft, poor 200 ft; value of fire department equipment \$1,000; value of department buildings \$400; total membership 480; bell and telephone alarm. Chief, J. S. Poland.

WATER SUPPLY—Source, Crow creek, a tributary of South Platte river; system, pumping to reservoir, reservoir cap 30,000 and 58,000 gals; pumping engines, dy cap 400,000 gals; 16 hydrants; pipe 3 miles, 4 in dia; 12 valves; pressure, domestic 10, fire 80 to 150 pounds; works owned by U. S. Government; cost \$19,000, to date \$30,000; ann expenses \$1,600. Supt, J. L. Drulen.

Laramie, Albany Co., population 6,388; mercantile buildings, brick, 2 stories; private, wood, 1 1/2 stories; wooden roofs permitted; fireworks

ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, 4 hose couplings used; hose, cotton good 2,300 ft, rubber good 2,000 ft; value of fire department equipment \$6,300; value of buildings occupied \$13,500; total ann expenses of department \$300; total membership 130, volunteers; bell and whistle alarm, Chief engineer, W. N. Roth.

WATER SUPPLY—Source, springs; system, gravity; reservoir, dy cap 2,000,000 gals; 40 hydrants; pipe 8 miles, 3 to 12 in dia; pressure 45 pounds; waterworks owned by U. P. Ry Co. and used for their own supply and fire protection in the city; cost to construct \$18,000; ann expenses \$100. City clerk, D. A. Jones.

New Castle, Weston Co., population 1,715; fire area 180 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 1,000 ft, cotton good 500 ft; value of fire department equipment \$3,500; value of buildings occupied \$10,000; total ann expenses of department \$1,500; total membership 60, volunteers; 2 fire companies. Chief engineer, C. O. Benner.

WATER SUPPLY—Source, springs, 12 miles distant; system, gravity; reservoir cap 250,000 gals; 11 hydrants; pipe 20 miles, 4 to 6 in dia; 6 valves; 2 meters; pressure, domestic 110 pounds, fire same; works owned by company; cost to construct to date \$225,000; ann expenses \$2,000. Supt, E. G. Edgar.

Mawhills, Carbon Co., population est 2,400; fire area 1 mile; mercantile buildings, stone, 1 and 2 stories; private, wood, 1 story; shingle and tin roofs used; fireworks ordinance. Fire department—2 chemical extinguishers, 2 hose carriages, 1 hook and ladder truck; hose, cotton good 750 ft, inferior 800 ft, rubber good 1,000 ft; value of equipment \$1,800; value of buildings occupied \$600; total membership 75, volunteers; 3 fire companies; whistle alarm. Chief engineer, Thomas Reid.

WATER SUPPLY—Source, well; system, pump to tank; 2 tanks cap 48,000 gals, each; reservoir cap 100,000 gals; pumping engines, dy cap 1,500,000 gals; 44 hydrants; pipe 4 miles, 4 to 8 in; pressure 40 to 120 pounds; waterworks owned by company; cost to construct \$45,000. Supt, W. Beurmon.

Rock Springs, Sweetwater Co., population 3,408; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 double chemical engine with 40 ft ladder, 2 hose carts; hose, cotton good 2,500 ft, rubber good 500 ft; ann expenses \$3,570; total membership 27; Gamewell alarm; 10 street boxes. Chief, J. Iredale.

WATER SUPPLY—Source, Green river; system, pumping to reservoir, cap 2,000,000 gals; pumping engines, dy cap 800,000 gals; 72 hydrants; pipe 42 miles, 4 to 8 in dia; 112 valves; 165 meters; pressure, domestic 60 to 65, fire 75 to 90 pounds; waterworks owned by U. P. Ry Co. Chief engineer, E. C. Sined; supt, Thomas J. Wyche.*

Sundance, Crook Co., population 300; fire area 3 1/2 blocks; mercantile buildings, wood and brick, 1 story; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—1 hose carriage; hose, cotton good 1,000 ft; value of fire department equipment \$1,000; value of buildings occupied \$3,000; total membership 26, volunteer members; triangle alarm. Chief engineer, W. H. Nefsey.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 3,500 bbls; 10 hydrants; pipe 2 miles, 4 to 7 in dia; 8 valves; pressure, domestic 67 1/2 pounds, fire same; works owned by company; cost to construct \$15,000; ann expenses \$250. Supt, Thomas Hooper.

DOMINION OF CANADA. BRITISH COLUMBIA.

Esquimalt, Victoria Co., population not given. Government have fire equipments at naval yard.

WATER SUPPLY—Source, Thetis and Upper Thetis lakes; system, gravity; 3 1/2 hydrants; pipe 11

miles; 60 meters; works owned by company; cost to construct \$125,000. Pres, T. Lubke.*

Kamloops, Yale Co., population 1,250; fire area 150 acres; mercantile buildings, wood, 1 and

2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 900 ft; total membership 34, volunteers; bell alarm; 3 fire companies. Chief, J. B. Bennett.

WATER SUPPLY—Source, Thomson river; system, pumping to reservoir; pumping engines, dy cap 700,000 gals; 24 hydrants; pressure, domestic 55, fire 100 pounds; works owned by company; cost to construct \$25,000. Supt, J. McIntosh.

Nanaimo, Vancouver Co., population 5,000; fire area 5,000 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 5 hose carts; hose, cotton good 4,000 ft; value of equipment \$6,000; value of buildings occupied \$300; ann expenses \$500; membership 50, volunteers. Chief engineer, John H. Scales. (Contract let for \$7,000 fire hall.)*

WATER SUPPLY—Source, mountain stream; system, gravity; reservoirs, cap 100,000,000 gals; 30 hydrants; pipe 10 miles; 4 meters; 40 valves; pressure 60 to 120 pounds; works owned by company; cost to construct \$50,925; ann expenses \$3,000. Supt, J. W. Stairtan.

New Westminster, New Westminster Co., population 7,000; fire area 1,500 acres; mercantile buildings, brick and stone, 2 to 5 stories; private, wood, 1 to 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 6 hose carriages, 1 hose wagon; hose, cotton good 1,000 ft, rubber good 4,500 ft; 8 horses, value \$1,700; value of fire department equipment \$30,000; value of buildings occupied \$700; total ann expenses of department \$10,500; total membership 43, paid full time 6, paid part time 7, volunteer members 24; Gamewell alarm; 11 street boxes; 1 fire company. Chief engineer, T. Ackerman.

WATER SUPPLY—Source, Coquitlam lake, 14 miles distant; system, gravity, service reservoir, cap 285,000 cubic ft; 75 hydrants; pipe 35½ miles, 22 to 3 in dia; 160 valves; 30 meters; pressure, domestic 150 to 250 ft per head, fire 150 to 400 ft per

head; works owned by city; cost to construct \$455,000. Chairman of water com, W. A. Duncan; engineer, Wm. Noot.

Vancouver, New Westminster District, population 18,685; mercantile buildings, brick and stone, 2 to 5 stories; private, wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 4 chemical extinguishers, 1 hook and ladder truck, 4 hose wagons, all kinds; hose, cotton good 2,000 ft, inferior 500 ft, rubber good 5,000 ft, inferior 250 ft; 12 horses, value \$3,000; value of fire department equipment \$25,000; value of buildings occupied \$6,500; total ann expenses of department \$22,000; total membership 22, paid full time; Gamewell alarm; 17 street boxes; 4 fire companies. Chief engineer, J. H. Carlisle.

WATER SUPPLY—Source, Capilano river; system, gravity; reservoir cap 10,000,000 gals; 175 hydrants; pipe 48 miles, 4 to 22 in dia; 70 meters; 2,400 taps; pressure 50 to 100 pounds; waterworks owned by city; cost to construct to date \$900,000. Supt, W. P. Turner.

Victoria, population 25,000; fire area 2,500 acres; mercantile buildings, brick, stone and wood, 1 to 7 stories; private, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 steam fire engines, 1 combined chemical engine and hose wagon, 6 chemical extinguishers, 1 hook and ladder truck, 1 70-ft aerial truck, 6 hose carriages, 1 hose wagon; hose, cotton good 1,500 ft, rubber good 2,500 ft; 11 horses, value \$2,500; value of fire department equipment \$80,000; value of buildings occupied \$50,000; total ann expenses of department \$24,000; total membership 31, paid full time 9, paid part time 22; Gamewell alarm; 31 street boxes; 1 hook and ladder company, 3 hose companies. Chief engineer, Thomas Deasy.

WATER SUPPLY—Source, lakes; system, gravity and direct pumping, cap 54,000 gals; dy cap 1,500,000 gals; 112 hydrants; pipe 4½ miles, 4 to 12 in dia; 136 meters; pressure at hydrants 30 to 70 pounds; waterworks owned by city; cost to construct \$500,000. Water commissioner, E. A. Wilmet.*

MANITOBA.

Brandon, Brandon Co., population 4,600; buildings, brick and wood, 1 to 3 stories; large brick fire district, created by by-law in center of city; wooden roofs permitted. Fire department—1 steam fire engine, 1 chemical engine on wheels, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 2,200 ft, inferior 600 ft, rubber good 1,000 ft, inferior 300 ft, linen good 800 ft, inferior 200 ft; 4 horses, value \$900; value of fire department equipment \$12,000; value of buildings \$10,000; total membership 21, paid full time 2, paid part time 21, volunteer members 4; bell alarm. Chief engineer, J. S. Richards.*

WATER SUPPLY—Source, river; system, pumping direct; dy cap 750,000 gals; 50 hydrants; pipe 5 miles, 6 to 12 in dia; cost to construct \$74,000; works owned by city. Town clerk, J. C. Kerr.*

Emerson, Manchester Co., population 650; fire area 1 sq mile; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,500 ft; volunteer department. Chief engineer, E. Casselman.

WATER SUPPLY—Source, river and cisterns. Town clerk, W. W. Unsworth.

Portage La Prairie, Portage La Prairie Co., population 4,000; buildings, wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 siamese couplings; hose, cotton good 1,500 ft, inferior 300 ft; 2 horses, value \$550; value of fire department equipment about \$7,000; value of buildings occupied \$17,000; ann expenses \$2,500; total membership 18, volunteers; bell alarm. Chief engineer, I. W. Thompson.*

WATER SUPPLY—Source, wells, tanks and 6 cisterns. Town clerk, F. A. Whitaker.

Virden, Dennis Co., population 800; fire area 320 acres; mercantile buildings, brick, stone and wood, 2 stories; private wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 400 ft, rubber good 100 ft; value of equipment \$1,000; value of buildings occupied \$200; membership 60, volunteers; bell alarm. Chief, W. W. Joslin; secy, E. Stanley.*

WATER SUPPLY—Source, wells and tank. Mayor, W. J. Kennedy.

Winnipeg, Selkirk Co., population 35,450; mercantile buildings, brick and stone, 4 and 5 stories; private, wood and brick, 3 and 4 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—3 steam fire engines, 3 chemical engines on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon, 3 supply wagons; hose, cotton good 5,800 ft, inferior 600 ft, rubber good 4,000 ft, inferior 750 ft, linen good 800 ft, inferior 200 ft; 16 horses, \$1,000; value of fire department equipment \$73,000; value of buildings occupied \$35,900; total ann expenses of department \$35,000; total membership 30, paid full time; Gamewell alarm; 59 street boxes. Chief engineer, Wm. Code.

WATER SUPPLY—Source, Assiniboine river; system, direct pumping; pumping engines, dy cap 1,500,000 gals; 40 hydrants; pipe 20 miles, 4 to 12 in dia; pressure, domestic 45, fire 85 pounds; waterworks owned by company; cost to construct \$130,000. Supt, J. E. Hannah.*

NEW BRUNSWICK

Chatham, North Cumberland Co., population 1000; frame buildings; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hand engines, 3 hose carriages, 3 fire trucks, 2 alarm wagons, 3 hose carts, 3 fire boats, 2 alarm wagons, 2 couplings, hose, rubber good 2,500 ft, inferior 500 ft, leather good 500 ft; value of fire department equipment \$7300; 3 buildings occupied, value \$300; total annual expenses of department \$3,000; total membership 60, paid full time 12, volunteer members 48; bell alarm.*

WATER SUPPLY—Source, river, 6 tanks. #

Frederickton, York Co., population 6,502; mercantile buildings, wood, 2 to 4 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck, 4 hose carriages and 1 in reserve; hose, rubber good 3,000 ft; cotton good 400 ft; value of fire department equipment \$10,000; value of buildings occupied \$10,000; total ann. expenses of department \$3,000; total membership 58; bells and whistle alarm. Chief engineer, Andrew Lipsett.

WATER SUPPLY—Source, River St. John; system, pumping direct; 2 pumping engines, dy cap 1,500,000 gals each; 85 hydrants; pipe 10 1-8 miles, 3 to 12 in dia; 128 valves; 4 meters; 812 taps; pressure, domestic 40, fire 70 pounds; Edison pressure recording gauge; works owned by city; cost to construct \$100,000, cost to date \$122,000; expenses \$6,000. Supt. Alex Barobill.

Kingston. population estimated 800; buildings, brick and wood, 3 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 1 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,800 ft. rubber good 200 ft. inferior 100 ft. linen good 1,200 ft. leather good 100 ft; value of fire department equipment \$30,000; ann. expenses \$5,000; total membership 27, paid full time 7, volunteer members 20; telegraph alarm; 10 street boxes. *

WATER SUPPLY—Source, lake; system, gravity; 1 reservoir, cap 300,000 gals; pipe 2 1-4 miles; 12 hydrants; pressure, domestic 35 pounds. J. L. Harris.*

Mometon, Westmoreland Co., population 3,765; fire area 1,000 acres; mercantile buildings, stone, brick and wood, 3 stories; private, wood and brick, 1½ to 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—2 steam fire engines, 1 hook and ladder truck with Bangor extension ladders, etc., 3 hose wagons, siamese couplings used; hose, cotton good 3,800 ft., fair 700 ft.; 4 horses, owned by department 4 hired, value of ones owned \$800; value of fire department equipment \$21,450; value of buildings occupied \$5,000, total expenses of department \$5,127; total membership 48, paid part time; electric alarm; 14 street boxes; 4 fire companies. Chief engineer, Geo. Ackman.

WATER SUPPLY—Source, N. W. branch Hall's creek; system, gravity; 2 reservoirs, cap 110,000, 4,000 gals; pumping engines, dy cap 1,500,000 gals; 50 hydrants; pipe 13½ miles, 12 to 3 in dia; 66 valves; 2 meters; pressure, domestic 25 to 40, fire 80 pounds; waterworks owned by company; cost to construct \$45,000; ann expenses \$5,000. Pres., Jno. L. Harris; supt, John Edgington. #

Newcastle, Northumberland Co., population 2,800; mercantile buildings, wood and brick, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine.

2 chemical extinguishers, 3 hose carriages, 3 aids; hose, rubber goul 2,500 ft., interior 200 ft.; value of buildings occupied \$3,000; total ann expenses of department \$2,157; volunteer department, paid while in service; 25 members; bell alarm. Chief engineer, R. Beck with.

WATER SUPPLY—Source, artesian wells, 6 tanks, river and reservoirs.

Portland, St. John Co., annexed to St. John.

St. John, St. Johns Co. (Includes Portland)
population estimated 40,000; fire area 4,140 acres;
mercantile buildings, brick, 3 and 4 stories; pri-
vate, brick and wood, 2½ and 3 stories; wooden
roofs not permitted except in annexed district;
fireworks ordinance; causes of fire investigated.
Fire department—6 steam fire engines, 2 hand en-
gines, 2 chemical extinguishers, 3 hook and lad-
der trucks, 9 hose carriages, all kinds, other appa-
ratus, salvage corps and wagon with chemical ex-
tinguishers furnished by underwriters; hose, rub-
ber good 300 ft, cotton good 8,000 ft, inferior 500
ft; 24 horses, value \$2,600; value of fire depart-
ment equipment \$120,000; total ann. expenses of
department \$28,000; total membership 78, paid
full time 23, call men 78; Gamewell alarm; street
boxes 61. Chief engineer, John Kerr.

WATER SUPPLY—Source, Little river and Spencer Lake; system, gravity; reservoir cap 80,000,000 gals; 342 hydrants; pipe 92.27, 2 to 24 in; taps 5,160; 1,013 valves; pressure, domestic 40 to 50, fire same pounds; water works owned by city; expenses of construction to date, \$1,227,421. Supt and engineer, Gilbert Murdoch.

St. Stephen, Charlotte Co., population 2,600; fire area 1,200 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, same; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages, 1 hose wagon; other apparatus, ladders, etc.; total ann. expenses of department, \$1,800; total membership 13, paid full time; bell alarm. Chief engineer, J. Ryder.

WATER SUPPLY—Source, St. Croix river; system, pumping to reservoir; reservoir cap 3,000,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 75; pipe 14 miles, 12 to 6 in dia; 3 meters; pressure, domestic 80, fire 80 pounds; water works owned by company. Supt, Everett M. Stacy.

Woodstock, Carleton Co., population 3,500; fire area 1,280 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department: 1 steam fire engine, 2 hand engines, 1 hook and ladder, 2 extension ladders, 9 hoses, 20 carriages, all kinds of wagons; hoses, cotton good 3,100 ft., rubber good 1,800 ft.; inferior 200 ft., leather good 300 ft., inferior 800 ft.; 1 horse, value \$300; value of fire department equipment \$12,000; value of buildings occupied \$4,000; total annual expenses of department \$2,900; total membership 25, paid full time 1, paid part time 24; electric, Pearce & Jones alarm; 8 street boxes; 3 fire companies. Chief engineer, F. H. J. Dibblee.

WATER SUPPLY—Source, River St. John; system, pumping direct and to standpipe; standpipe cap 283,000 gals; pumping engine, 5 hp cap 1,700,000 gals; 72 hydrants; pipe 6½ miles, 4 to 10 in dia; 50 valves; 38 meters; 508 taps; pressure, domestic 75, fire 75 to 100 pounds; waterworks owned by town; cost to construct \$77,000; ann expenses \$2,200. Supt. Donald Munroe.

NORTHWEST TERRITORIES.

Calgary, Alberta District, population 4,500; fire area about 1 1/2 sq. miles; mercantile buildings, wood and stone, 1 1/2 and 2 stories; private, wood and stone, 1 1/2 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and fire engine, 1 chemical engine on wheels, 1 hose and ladder truck, 1 hose carriage, 1 hose wagon, axes, buckets, etc.; hose, cotton good 2,000 ft., rubber good 1,000 ft.; 2 horses, value \$500; value of fire department equipment \$10,000; value of buildings occupied \$4,000; ann. expenses \$7,000; total membership 33, paid full time 3, remainder volunteers; telephone and bell alarm. Chief engineer, James Wilson.

WATER SUPPLY—Source, Bow river; system, direct pumping; pumping engine, fly cap 2,000, 000 gals; 36 hydrants; pipe 10 miles, 12 to 4 in dia; 50 valves; 2 meters; pressure, domestic 40 to 50, fire 100 pounds; waterworks owned by company; cost to construct \$150,000. Pres. Geo. Alexander.

Prince Albert, Saskatchewan Territory, population 1,000; fire area 1,800 acres; mercantile buildings, wood and brick, 2 stories; private wood and brick, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hook and ladder trucks; hoses hired; total ann expenses of department \$100; total member-

ship 35, all volunteers; bell alarm. Captain, W. McLehlan.

WATER SUPPLY—Source, Saskatchewan river.

Regina, Assiniboia District, population 2,500; fire area 100 acres; mercantile, buildings, wood and brick, 2 to 4 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 horse power engine, 1 chemical engine on

wheels, 2 hose carriages, all kinds; hose, rubber good 1,500 ft; 2 horses, value \$400; value of fire department equipment \$6,000; value of buildings occupied \$2,000; total ann expenses of department \$300; total membership 30, volunteer members. Chief engineer, Thos. Jones.

WATER SUPPLY—Source, 10 tanks; 7 of 3,500 gals cap each, 2 of 15,000, 1 of 10,000 (imperial gals). Chairman of fire and water com, P. Lamont.

NOVA SCOTIA.

Amherst, Cumberland Co., population 4,200; fire area 1 mile square; mercantile buildings, brick and stone, 1½ to 3 stories; private, wood, 1½ to 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds, 1 hose sled; hose, rubber good 1,500 ft, inferior 250 ft, cotton good 1,500 ft, inferior 100 ft, linen good 500 ft; 3 horses, value \$450; value of fire department equipment \$9,000; value of buildings occupied \$2,500; total ann expenses of department \$550; total membership 33, volunteer members; bell and electric alarm; boxes 8; 1 hook and ladder company, 3 hose companies. Chief engineer, C. W. Bliss.

WATER SUPPLY—Source, river; system, pumping to reservoir and direct; reservoir cap 3,000,000 gals; pumping engines, dy cap 1,500,000 gals; hydrants 39; pipe 4 miles, 12 to 4 in; valves 27; waterworks owned by the town; original cost to construct \$79,000; expenses of construction to date \$79,304; ann expenses \$1,524. Supt, Chas. Campbell.

Annapolis, Annapolis Co., population 1,000; fire area about 400 acres; mercantile buildings, wood and brick, 2½ stories; private, wood and brick, 2, 2½ and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 250 ft, rubber good 600 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,000; total ann expenses of department \$500; total membership 25, volunteers 12; bell alarm. Chief engineer, J. E. Crowe.

WATER SUPPLY—Source, lake; system, gravity; 23 fire hydrants; pipe 5½ miles, 8 to 4 in dia; 25 valves; 240 taps; pressure, domestic 85, fire 100 pounds; works owned by town; cost to construct \$27,000; ann expenses \$400. Supt, R. J. Uniaoke.

Antigonish, Antigonish Co., population 2,000; mercantile buildings, brick and wood, 3 stories; private, wood, 2 and 2½ stories; wooden roofs are permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,200 ft; value of fire department equipment \$2,000; value of buildings occupied \$200; total membership 36, paid; bell alarm. Capt, David Somers.

WATER SUPPLY—Source, brooks; system, gravity; reservoir cap 500,000 gals; 24 hydrants; pipe 4½ miles; pressure, domestic 70, fire 140 pounds; works owned by town; cost to construct \$40,000. Pres, A. M. Cunningham; supt, W. J. Landry.

Bridgeport, Annapolis Co., population 1,000; fire area 400 acres; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 800 ft; value of fire department equipment \$2,000; total membership 14, all volunteers; bell alarm. Capt, E. G. Langley.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 1,000,000 gals; 22 hydrants; pipe 4½ miles, 8, 6 and 4 in dia; 14 valves; 220 taps; pressure 210 pounds; cost to construct \$21,500; ann expenses \$1,500. Supt, J. L. Cox.

Bridgeport, Lunenburg Co., population 3,000; buildings, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 supply wagon; hose, rubber good 1,000 ft, cotton good 200 ft; value of equipment \$5,000; total membership 40, all volunteers. Chief engineer, R. A. Logan; chairman, R. D. Dawson.

WATER SUPPLY—Source, river, tanks.

Canning, Kings Co., population 600; fire area 1,000 acres; mercantile buildings, stone and wood, 1½ and 2 stories; private, stone and wood, 1 1-2

and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, other apparatus, ladders; hose, rubber good 600 ft, leather good 300 ft, linen inferior 150 ft; value of fire department equipment \$1,500; value of buildings occupied \$300; total ann expenses of department \$1,000; total membership 12, volunteer members; bell alarm. Captain, Harry G. Martin.

WATER SUPPLY—Source, stream; system, gravity; reservoir cap 2,000,000 gals; hydrants 25; pipe 4 miles, 4, 6 and 8 in; taps 75; valves 15; pressure 80 pounds; waterworks owned by company; original cost to construct \$25,000; ann expenses \$200. Supt, Sidney Bluekhorn.

Barmouth, Halifax Co., population 6,249; fire area 2 sq miles; buildings, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, 1 salvage wagon, 1 water cart; hose, rubber good 1,850 ft, leather good 400 ft; value of fire department equipment \$8,000; value of buildings occupied \$3,000; total ann expenses of department \$543; total membership 67, paid part time 2, remainder volunteers; bell alarm. Capt, Geo. H. Craig. Fire patrol of 20 members; ann expenses of patrol \$250.

WATER SUPPLY—Source, lakes; system, gravity; reservoir cap 241,000,000 gals; 55 hydrants; pipe 7 1-2 miles, 4 to 20 in dia; 61 valves; 4 meters; 350 taps; pressure 40 to 90 pounds; works owned by town; cost to construct \$70,000. Supt, W. L. Bishop.

Halifax, Halifax Co., population 40,000; mercantile buildings, brick, 4 stories; private, wood, 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—5 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 2 hook and ladder trucks, 12 hose carriages, all kinds, not in service, 10 hose wagons, 10 hose sleds; hose, rubber good 11,000 ft, inferior 2,000 ft, cotton good 3,000 ft, inferior 1,000; 23 horses, value \$4,000; value of fire department equipment \$45,000; value of buildings occupied \$50,000; total ann expenses of department \$39,000; total membership 140, paid full time 24, volunteer members 116; Gamewell alarm; street boxes 43. Chief engineer, John F. Ryan.

WATER SUPPLY—Source, surface water, high service, Spruce Hill lakes, low service Long lake; system, gravity; 355 hydrants; pipe 50 miles, 3 to 24 in dia; 77 meters; pressure, domestic 10 to 50, fire 25 to 70 pounds, according to locality; waterworks owned by city; cost of works to date about \$850,000; ann expenses \$15,300. Supt and engineer, F. W. W. Doane.

Kentville, Kings Co., population 2,000; fire area 1 mile sq; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—4 Babcock extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,000; total membership about 60, all volunteers; bell alarm. Chief engineer, T. J. Masters.

WATER SUPPLY—Source, Mill Brook; system, gravity; reservoir cap 3,020,000 gals; hydrants 45; pipe 7 miles, 8, 6 and 4 in; taps 184; 32 valves; pressure, domestic 100 pounds, fire same; waterworks owned by city; original cost to construct \$30,000; expenses of construction to date \$32,012; ann expenses \$500. Supt, J. D. Moore.

Lunenburg, Lunenburg Co., population 4,044; fire area 700 acres; mercantile buildings, wood, 2½ and 3 stories; private, wood, 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck,

5 hose carriages, 1 supply wagon, 1 salvage wagon; hose, rubber good 1,000 ft, cotton good 1,000 ft, linen good 200 ft; value of fire department equipment \$13,500; value of buildings occupied \$3,100; total ann expenses of department \$1,494 (salvage corps costs about \$100 additional); total membership 65, all volunteers; bell and telephone alarm. Chief engineer, Frank Powers.

WATER SUPPLY—Source, sea; 4 reservoirs, cap 45,000 gals each. (Water Co. has secured a charter will build this year.)

New Glasgow, Pictou Co., population 4,000; fire area 1,000 acres; buildings, brick, stone and wood, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 6 hose carriages, slamese couplings used; hose, linen good 400 ft, poor 200 ft, rubber good 2,500 ft, inferior 1,500 ft; value of fire department equipment \$12,000; value of buildings occupied \$1,200; total ann expenses of department \$754; total membership 63, volunteers; steam whistle and bell alarm. Chief engineer, Jas. W. Frazer.

WATER SUPPLY—Source, East river; system, pumping to reservoir; reservoir cap 2,000,000 gals; pumping engines, dy cap 1,750,000 gals; 46 hydrants; pipe 12 miles, 3 to 12 in dia; 42 valves; 13 meters; 700 taps; pressure, domestic 95, fire 120 pounds; works owned by city; cost to construct \$80,000, cost to date \$120,000. Supt. D. Ormiston.

North Sydney, Cape Breton Co., population 2,613; buildings, wood, 1½ to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, 2 fire boats; hose, linen good 800 ft, rubber good 1,000 ft; value of fire department equipment \$8,000; total ann expenses of department \$340; total membership 42, paid 2, volunteers 40; bell alarm.*

WATER SUPPLY—Source, wells and 2 large brooks. Town clerk, J. N. Armstrong.*

Pictou, Pictou Co., population 3,287; mercantile buildings, wood, 3 stories; private, wood; wooden roofs are permitted. Fire department—2 steam fire engines, 1 hand engine, 2 hook and ladder trucks, 5 hose carriages; hose, rubber good 2,500 ft, inferior 1,000 ft; value of buildings occupied \$2,000; total membership 70, volunteers; bell alarm. Chief, Samuel Little.

WATER SUPPLY—Source, harbor, cisterns and wells. Town clerk, G. D. Ives.

Spring Hill, Cumberland Co., population 6,000; fire area 200 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 2 and 2½ stories; shingle roofs are principally used; fireworks ordinance. Fire department—1 chemical engine on wheels, 20 chemical extinguishers, 1 hook and ladder truck; hose, 150 ft rubber good; 3 horses, value \$800; value of fire department equipment \$3,000; value of buildings occupied \$1,000; total ann expenses of department \$2,000; total membership 24, volunteers; bell alarm. Chief engineer, E. A. Potter.

WATER SUPPLY—Source, springs and artesian wells. Town clerk, Daniel McLeod.

Stillarton, Pictou District, population 3,200; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 800 ft; value of fire department equipment \$2,500; value of buildings occupied \$350; total ann expenses of department \$200; total membership 30, volunteer members; bell alarm. Chief, George Gray.

WATER SUPPLY—Source, East river; system, pumping to reservoir; reservoir cap 1,000,000

gals; pumping engines, dy cap 750,000 gals; hydrants 15; pipe 3 miles, 4 to 10 in; taps 77; valves 18; pressure 50 to 70 pounds; waterworks owned by town; expenses of construction to date \$29,067; ann expenses \$987. Supt. W. C. McDonald.

Sydney, Cape Breton Co., population 3,700; mercantile buildings, wood, 1 to 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, rubber good 1,000 ft; value of fire department equipment \$1,500; value of buildings occupied \$1,500; total membership 23, paid part time; bell alarm. Captain, Ed. Grantsmyers.

WATER SUPPLY—Source, Mill brook; system, gravity; hydrants 21; pipe 3 miles, 10 to 4 in; taps 150; pressure 45 to 60 pounds; waterworks owned by town; cost to construct \$55,000. Supt. Thomas Weeks.

Truro, Colchester Co., population 5,102; fire area 400 acres; buildings, wood, 1½ and 2½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine (not used), 1 chemical engine, 3 hook and ladder trucks, 1 ladder wagon, 4 hose carriages, 1 extension ladder; hose, rubber 3,300 ft, inferior 600 ft, cotton good 600 ft; value of fire department equipment \$80,000; value of buildings occupied \$6,000; ann expenses \$1,025; total membership 40, volunteers, paid part time 3; telegraph alarm; 10 street boxes. Capt. A. E. McKay.

WATER SUPPLY—Source, brook; system, gravity, direct pumping for fire protection; pumping engines; reservoir cap 2,500,000 gals; 57 hydrants; pipe 6½ miles, 4 to 12 in dia; 39 valves; 600 taps; pressure, domestic 78, fire 90 to 100 pounds; waterworks owned by town; cost to construct \$61,500; ann expenses inc interest \$3,600. Supt. A. L. Archibald.

Windsor, Hants Co., population 2,800; fire area 3 sq miles; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hook and ladder trucks, 4 hose carriages; hose, cotton good 1,100 ft, poor 200 ft, rubber good 700 ft; value of fire department equipment \$5,300; value of buildings occupied \$800; total ann expenses of department \$200; total membership 60, volunteers; bell alarm; 2 fire companies. Capt. Morton C. Smith.

WATER SUPPLY—Source, lakes; system, gravity; 62 hydrants; 30 valves; pipe 10½ miles, 4 to 10 in dia; 550 taps; pressure 80 pounds; waterworks owned by town; cost to construct \$54,000; ann expenses \$650. Supt. G. P. Smith.

Yarmouth, Yarmouth Co., population 6,100; fire area 1,300 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 2 hand engines, 1 chemical extinguisher, 1 hook and ladder truck, 5 hose carriages, 2 hose wagons, slamese couplings used; hose, cotton good 3,500 ft, rubber good 500 ft; 9 horses, 6 hired; value of fire department equipment \$11,000; value of 3 buildings occupied \$2,000; total ann expenses of department \$6,500; total membership 130, paid 6, remainder volunteers; bell alarm. Chairman of fire board, James M. Laughlin.

WATER SUPPLY—Source, Lake George; system, gravity; 45 hydrants; pipe 30 miles, 4 to 12 in dia; 92 valves; 5 meters; 2,400 taps; pressure 25 to 45 pounds; Edson pressure recording gauge; waterworks owned by city; cost to construct \$240,000; ann expenses \$2,000. Supt. Geo. H. Robertson.

ONTARIO.

Acton, Haelton Co., population 1,300; fire area 400 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, bucket brigade. Chief, John Cameron.

WATER SUPPLY—Source, wells. Village clerk, Thomas I. Moore.*

Alliston, Simcoe Co., population 1,371; fire area 200 acres; mercantile buildings, brick, 2 stories; private, wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 3

chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, hand grenades; hose, cotton good 100 ft, inferior 50 ft, rubber good 100 ft, inferior 50 ft; value of fire department \$300; total ann expenses of department \$60; membership 15, paid part time 1, volunteer members 15; bell alarm. Chief engineer, James Terrett.*

WATER SUPPLY—Source, wells and cisterns.*

Almonte, Lanark Co., population 3,071; mercantile buildings, stone and brick, 1½ and 3 stories; private, stone, brick and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose car-

riages, all kinds; hose, rubber good 300 ft, inferior 200 ft, cotton good 1,500 ft; value of fire department equipment \$8,000; total membership 30, volunteers; bell alarm. Chief engineer, Geo. W. Willoughby.

WATER SUPPLY—Source, rivers and cisterns.

Alymer, Elgin Co., population 2,167; fire area 10 blocks; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1 and 2 stories; wooden roofs permitted laid in mortar; fireworks ordinance. Fire department—1 hand engine, not used, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,000 ft, inferior 200 ft, rubber inferior 600 ft; value of fire department equipment \$3,000; value of buildings occupied \$10,000; total ann expenses of department \$200; total membership 21, paid part time, volunteers; bell alarm. Chief engineer, Thos. H. Collins.

WATER SUPPLY—Source, Catfish creek; system, direct pumping; pumping engines, dy cap 2,000, 000 gals; 24 hydrants; pipe 4 1-9 miles, 8, 6, 4 in dia; 14 valves; pressure 50, fire 90 to 140 pounds; waterworks owned by town; cost to construct \$17,500; ann expenses \$1,500. Engineer, Alex Milne.

Amherstburg, Essex Co., population 2,270; mercantile buildings, stone, brick and wood, 2 and 3 stories; private, stone, brick and wood, 3 stories; wooden roofs permitted. Fire department—1 hook and ladder equipment, 3 hose carriages; hose, rubber 500 ft, cotton good 1,000 ft, inferior 500 ft; value of fire department equipment \$2,000; value of buildings occupied \$16,000; expenses for past year \$500; total membership 12, paid part time; electric bell and whistle alarm. Chief, J. A. Auld.

WATER SUPPLY—Source, Detroit river; system, pumping to standpipe and direct; standpipe cap 40,000 gals; pumping engines, cap 50,000 gals per hour; hydrants 34; pipe 6 miles, 10 to 4 in dia; valves 24; pressure, domestic 35, fire 125 pounds; works owned by city; cost to construct \$35,000. Supt, Maloney, Jr.

Arnprior, Renfrew Co., population 3,600; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, all kinds, 1 coal wagon; hose, rubber good 550 ft, inferior 600 ft, cotton good 1,400 ft, inferior 300 ft; value of fire department equipment \$6,300; value of buildings occupied \$17,000; total ann expenses of department \$480; total membership 75, bell alarm. Chief engineer, John T. Watt.

WATER SUPPLY—Source, wells, rivers and tanks.

Ashburnham, (see Peterborough).

Athens, Leeds Co., population 1,000; fire area 40 acres; mercantile buildings, brick and stone, 1½ to 3 stories; private, brick, 1 1-2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—25 chemical extinguishers.

Aurora, York Co., population 1,920; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,000 ft, rubber good 400 ft; total membership 54, volunteers; electric bell alarm; 4 street boxes; 1 hook and ladder company, 3 hose companies. Chief, P. T. Bond.

WATER SUPPLY—Source, spring, creek; system, pumping to reservoir, cap 50,000 gals; pumping engines; hydrants 18; pipe 10,320 ft, 4 to 6 in dia; valves 9; pressure 15 to 150 pounds; works owned by town; cost to construct \$15,000. Chairman, J. H. Ross; engineer, C. A. Petch.*

Ayr, Waterloo Co., population 1,200; fire area 500 acres; mercantile buildings, brick, 2 stories; private, 1½ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; foundry has force pump and 100 ft; hose, cotton good 100 ft, leather inferior 100 ft; value of fire department equipment \$650; value of buildings occupied \$200; total ann expenses of department \$240; total membership 20, volunteers; bell alarm. Chief, James G. Watson.

WATER SUPPLY—Source, springs.

Barrie, Simcoe Co., population 5,550. Fire department—1 steam fire engine, 2 hose carriages;

hose, rubber and leather good; volunteer department. Chief engineer, G. G. Smith.*

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe, cap 150,000 gals; pumping engines, dy cap 1,600,000 gals; 67 hydrants; pipe 7 miles, 4 to 12 in dia; 36 valves; 12 meters; 325 taps; pressure, domestic 70 to 80, fire 80 to 150 pounds; waterworks owned by company; cost to construct \$100,000. Pres, E. A. Bond; supt, W. J. Vallean.

Beaverton, Ontario Co., population 900; fire area 300 acres; buildings, brick and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck; 75 pails. Captain, T. Treleavan.

WATER SUPPLY—Source, river.

Bellefleur, Hastings Co., population 11,000; fire area 100 acres; mercantile buildings, brick and stone, 2 to 4 stories; private, stone, wood and brick, 1 to 2½ stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon, 2 hose sleighs, 4 hose couplings used; hose, cotton good 2,500 ft, inferior 500 ft, rubber good 1,200 ft; 3 horses hired; value of fire department equipment \$10,000; value of buildings occupied \$10,000; total ann expenses of department \$11,000; total membership 28, paid full time 1, paid part time 27; telephone alarm. Chief, W. H. Campbell.

WATER SUPPLY—Source, lake, filtered; system, pumping to tank; pumping engines, dy cap 175,000 gals; 175 hydrants; pipe 11½ miles; 44 meters; 463 taps; waterworks owned by company. Supt, M. M. Thompson.

Berlin, Waterloo Co., population 8,000; fire area 900 acres; mercantile buildings, brick, 3 stories; private, brick, 2 stories; wooden roofs permitted, in mortar; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 chemical engine, 1 hook and ladder truck, 2 hose carts, 1 hose wagon; hose, rubber good 900 ft, cotton good 800, linen good 2,000 ft; 2 horses, value \$800; value of fire department equipment \$21,700; total ann expenses of department \$15,000; total membership 18, paid full time 1, paid part time 17; Anderson electric striker and box alarm; 6 street boxes. Chief, Louis Funin.

WATER SUPPLY—Source, lake and springs; system, pumping to standpipe; standpipe cap 150,000 gals; pumping engines, dy cap 2,750,000 gals; 89 hydrants; pipe 10 miles, 4 to 12 in dia; 65 valves; 63 meters; 463 taps; pressure, domestic 60 to 80, fire 100 pounds; waterworks owned by company; cost to construct \$125,000; ann expenses \$3,100. Supt, J. E. Skidmore.

Blenheim, Kent Co., population 1,708; fire area 150 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 chemical extinguisher, 2 hose carriages; hose, cotton good 1,600 ft; value of fire department equipment \$5,000; value of department buildings \$1,000; total ann expenses of department \$175; total membership 20, volunteers; bell alarm. Chief engineer, J. H. Furguson.

WATER SUPPLY—Source, 5 tanks.

Bobcaygeon, Victoria Co., population 1,018; fire area 100 acres; mercantile buildings, brick and wood, 2 stories; private, wood, brick and stone, 1 and 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 4 hand engines, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 1,000 ft, rubber good 200 ft; value of fire department equipment \$4,000; value of buildings occupied \$700; total membership 35, volunteers; bell alarm. Capt, A. E. Bottom.

WATER SUPPLY—Source, river and canal.

Bothwell, Kent Co., population 1,000; fire area 3-4 miles; mercantile buildings, brick and wood, 2 stories; private, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 300 ft, rubber good 450 ft, inferior 200 ft, leather good 500 ft; value of fire department equipment \$1,000; total ann expenses of department \$200; total membership 25, paid part time; bell alarm. Chief engineer, Geo. Johns.*

WATER SUPPLY—Source, tanks.*

Bowmanville, Durham Co., population 3,500;

mercantile buildings, 2 and 3 stories; private, brick; wooden and slate roofs. Fire department—1 steam fire engine, 1 hand engine, 24 chemical extinguishers, 1 extension ladder, 3 hose carriages; hose, cotton good 200 ft, rubber good 1,300 ft, inferior 100 ft; 4 horses; value of equipment \$7,000; expenses of department \$1,000; total membership 36, paid; electric bell alarm. Chief engineer, Thos. Hoar.

WATER SUPPLY—Source, wells, tanks and cisterns. Town clerk, R. Windatt.

Bracebridge, Muskoka Co., population 1,600 to 2,000; fire area 150 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber and cotton good 1,000 ft, inferior 400 ft; value of fire department equipment \$2,500; total membership 20, paid full time 2, volunteer members 18; bell alarm. Chief engineer, R. E. Armstrong.

WATER SUPPLY—Source, Muskoka river; system, pumping direct; 4 hydrants; pipe $\frac{1}{2}$ mile, size 6 in; 2 valves; pressure 80 to 90 pounds; waterworks owned by city and company; original cost to construct \$3,000. (Are beginning to build a system to cost \$15,000.)

Bradford, Simcoe Co., population 1,200; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—2 hand engines, several chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, rubber good 500 ft, linen good 300 ft, leather inferior 200 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,000; total ann. expenses of department \$120; total membership 70, volunteers; bell alarm. Chief engineer, James Dedman.

WATER SUPPLY—Source, tanks fed by springs. (Waterworks contemplated.)

Brampton, Peel Co., population 3,252; buildings, brick, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 4 hose carriages; hose, cotton good 600 ft, rubber good 900 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total ann. expenses of department \$300; total membership 60, volunteers; bell alarm. Chief engineer, Jas. Goding.

WATER SUPPLY—Source, Snell's lake; system, gravity; 60 hydrants; pipe 4 miles, 6 to 12 in dia; filtration gravel; pressure 50 pounds; waterworks owned by town; cost to construct \$65,000; ann. expenses \$300. Town clerk, J. M. Oulla.*

Brantford, Brant Co., population 15,454; fire area 1,500 acres; buildings, brick, 1 to 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—4 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 3 hose carriages; hose, cotton good 2,500 ft, inferior 1,000 ft; 5 horses, value \$1,300; value of fire department equipment \$15,300; value of buildings occupied \$12,000; total ann. expenses of department \$8,000; total membership 10, paid full time; bell and telephone alarm; 31 street boxes. Chief, Geo. D. Calder.

WATER SUPPLY—Source, spring, creek, filter gallery; system, direct pumping; reservoir cap 29,000 gals; pumping engines, dy cap 4,000,000 gals; 172 hydrants; pipe 22 miles, 6 to 16 in dia; 72 valves; 34 meters; pressure, domestic 60, fire 75 to 100 pounds; waterworks owned by city; cost to construct \$185,000, cost to date \$227,494; ann. expenses \$7,000. Chairman, Alfred Watts; overseer, S. Tomlinson, secy, Wm. Frank.

Brookville, Leeds Co., population 9,300; fire area 2 miles long by $\frac{1}{2}$ mile wide; buildings, brick and stone, 2 to 4 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 5 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, 1 hose wagon; hose, cotton good 2,600 ft, rubber good 400 ft; 4 horses; value of fire department equipment \$12,000; value of buildings occupied \$1,500; total ann. expenses of department \$3,600; total membership 34, paid 4, volunteers 30; Gamewell alarm; 17 street boxes. Chief engineer, James S. Dodd.

WATER SUPPLY—Source, St. Lawrence river; system, direct pumping; 2 pumping engines, dy cap 1,500,000 gals each; 92 hydrants; pipe 13 miles, 4 to 16 in dia; 68 valves; 4 meters; pressure, do.

mestic 65, fire 75 to 100 pounds; waterworks owned by town; cost to construct to date \$156,000; ann. expenses \$8,000. Supt, secy and treas, Robert Picken.

Brussels, Huron Co., population 1,204; buildings, brick and wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft, inferior 500 ft; value of fire department equipment \$4,000; total ann. expenses of department \$250; total membership 30, volunteers; bell alarm. Chief engineer, F. Scott.*

WATER SUPPLY—Source, river, 3 tanks. Town clerk, F. S. Scott.

Caledonia, Haldimand Co., population 1,000; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 800 ft; value of fire department equipment \$1,500; value of buildings occupied \$400; total membership 60, volunteers. Chief engineer, D. M. Tumback.

WATER SUPPLY—Source, Grand river; system, pumping direct and to reservoir; reservoir cap 100,000 gals; pumping engines, cap 8,000 gals per hour; 9 hydrants; pipe 3 miles, 6 in dia; 4 valves; pressure 80 to 110 pounds; waterworks owned by company; cost to construct \$10,000; ann. expenses \$1,800. Supt, J. Riddell.

Campbellford, Northumberland Co., population 2,500; fire area, 140 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, $\frac{1}{2}$ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 500 ft, cotton good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann. expenses of department \$40; total membership 18, paid full time 1, paid part time 17; electric bell alarm; bell alarm; 4 street boxes. Chief engineer, H. Williams.

WATER SUPPLY—Source, Trent river; system, pumping direct; pumping engines, dy cap 1,000,000 gals; 25 hydrants; pipe 2 1-2 miles, 8, 6, 4 in dia; 9 valves; pressure, domestic 50, fire 140 pounds; works owned by town; cost to construct \$20,000. Supt, James Carr.

Cammington, Ontario Co., population 1,050; fire area 500 acres; buildings, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 500 ft, inferior 500 ft; value of fire department equipment \$1,400; value of buildings occupied \$6,000; total membership 40, volunteers; bell alarm. Chief engineer, Jas. Marshall.*

WATER SUPPLY—Source, tanks and river.*

Carleton Place, Lanark Co., population 4,435; fire area 1,100 acres; mercantile buildings, stone, brick and veneer, 2 and 3 stories; private, wood and brick, 1 1-2 and 2 stories; galvanized roofs; fireworks ordinance. Fire department—1 steam fire engine, 3 hose carriages; hose, cotton good 950 ft, inferior 200 ft, rubber good 1,000 ft, inferior 250 ft; value of fire department equipment \$10,000; value of buildings occupied \$5,500; total ann. expenses of department \$900; total membership 29, paid part time 30, volunteers 25; bell alarm; 1 fire company. Chief engineer, Jas. Dougherty.

WATER SUPPLY—Source, river, tanks, cisterns and small reservoir. Town clerk, A. R. G. Feden.

Cayuga, Haldimand Co., population 822; fire area 400 acres; mercantile buildings, brick, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 200 ft, rubber good 200 ft, leather good 50 ft, linen good 100 ft; value of fire department equipment \$600; value of buildings occupied \$1,500; total membership 25, volunteers; bell alarm. Chief, Richard Sinnen.*

WATER SUPPLY—Source, tanks.*

Chatham, Kent Co., population 10,000; fire area 9,052 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, wood and brick, 2 stories; wooden roofs not permitted in fire district; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1

hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 1,500 ft, fair 1,000 ft; 4 horses, value \$800; value of fire department equipment \$10,000; value of buildings occupied \$5,000; total ann expenses of department \$3,000; total membership 11, paid full time 4, paid part time 7; telephone alarm, also watchman in tower from 10 p. m. to 6 a. m. Chief, Alex Jacques.

WATER SUPPLY—Source, artesian wells; system, pumping to standpipe, cap 204,500 gals; pumping engines, dy cap 3,000,000 gals; 163 hydrants; pipe 18 inches, 12 to 4 in dia; 70 valves; 16 meters; 300 taps; pressure, domestic 40, fire 100 to 150 pounds; works owned by company; cost to construct over \$200,000. Pres, F. A. Hinds; supt, W. J. Vallean.

Chealey, Bruce Co., population 1,800; fire area 4½ acres; mercantile buildings, brick, 2 stories; private, brick, 2 stories; wooden roofs not permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,200 ft; value of fire department equipment \$5,500; total ann expenses of department \$600; total membership 26, paid full time 3, volunteer members 22. Chief engineer, John T. Flood.

WATER SUPPLY—Source, wells, river and 7 tanks.

Clinton, Huron Co., population 2,700; mercantile buildings, brick, 2 stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine (private chemical extinguishers in mostly all places of business), 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft, linen inferior 600 ft; value of fire department equipment \$5,000; value of buildings occupied \$12,000 (part of town hall); total ann expenses of department \$1,200; total membership 18, paid part time 17; bell alarm. Chief engineer, Wm. Coats.

WATER SUPPLY—Source, wells for domestic and tanks for fire purposes. Mill has steam pumps and 2 fire hydrants.

Cobourg, Northumberland Co., population 5,000; fire area 7 miles; mercantile buildings, brick, 3 stories; private, brick, 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose wagon, 1 hand reel; hose, linen good 2,200 ft, rubber poor 500 ft; 4 horses, value \$800; value of fire department equipment \$3,800; value of buildings occupied \$5,000; total ann expenses of department \$3,450; total membership 32, paid full time 12, volunteer members 20; 10 alarm bells; 1 hook and ladder company, 1 hose company. Chief engineer, W. L. Pesett.

WATER SUPPLY—Source, Lake Ontario and cisterns; system, pumping to standpipe and direct; standpipe cap 175,000 gals; pumping engines, dy cap 3,000,000 gals; 74 hydrants; pipe 7 miles, 4 to 12 in dia; 46 valves; 41 meters; pressure 66 pounds; waterworks owned by company. Supt, A. J. Hewson.

Collingwood, Simcoe Co., population 5,085; buildings, brick, 2 and 3 stories; wooden roofs not permitted. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 1,500 ft, cotton good 500 ft; value of fire department equipment \$15,000; value of buildings occupied \$800; expenses for past year \$1,200; total membership 20, paid part time. Chief engineer, John Patterson.

WATER SUPPLY—Source, Georgian Bay; system, pumping direct; pumping engines, dy cap 3,000,000 gals; 56 hydrants; pipe 7 1-4 miles, 4 to 12 in dia; 22 valves; 324 taps; pressure, domestic 45, fire 80 to 125 pounds; waterworks owned by town; cost to construct \$52,750; ann expenses about \$2,500. Supt, Thos. Bassett.

Cornwall, Stormont Co., population 7,000; fire area 750 acres; mercantile buildings, brick, 2½ and 3 stories; private, brick and wood, 2 stories; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages, siamese couplings; hose, cotton good 1,900 ft, rubber good 300 ft, inferior 500 ft; mills have hand engine, hose and sprinklers, also organized company; value of fire department equipment \$12,000; value of buildings occupied \$3,000; total ann expenses of department \$3,000; membership 25, paid full time 5, paid part

time 2, volunteers 20; electric bell alarm; 7 street boxes. Chief engineer, J. G. Hunter.

WATER SUPPLY—Source, St. Lawrence river; system, pumping to standpipe; standpipe cap 300,000 gals; pumping engines, dy cap 1,500,000 gals; 60 hydrants; pipe 9 miles, 4 to 12 in dia; 40 valves; 6 meters; pressure, domestic 55, fire 100 pounds; waterworks owned by Flook Bros.

Deseronto, Hastings Co., population 4,000; buildings, stone, brick and wood, 2 and 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 4 chemical engines on wheels, 5 hose carriages; hose, 5,000 ft; value of equipment \$7,500; electric alarm. Equipment owned by Rathbun Co., town pay for use of same.

WATER SUPPLY—Source, Bay of Quinte, wells and large tank; system, pumping direct; pumps, dy cap 612,000 gals per 10 hours; 18 hydrants; pipe 1 1-5 miles, 8 and 6 in; 5 valves; pressure 100 pounds; works owned by company. Mayor, E. W. Rathbun.

Dresden, Kent Co., population 2,250; fire area 650 acres; mercantile buildings, wood and brick, 1 to 3 stories; private, wood and brick, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 2,000 ft; value of fire department equipment \$5,200; value of buildings occupied \$3,600; total membership 22, all volunteers; bell alarm. Chief engineer, Thos. Sleeper.

WATER SUPPLY—Source, river and wells.

Dundas, Wentworth Co., population 3,546; fire area 250 acres; mercantile buildings, brick and stone, 3 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—3 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages; hose, rubber good 1,500 ft, linen good 150 ft; value of fire department equipment \$4,500; value of buildings occupied \$1,700; total ann expenses of department \$500; total membership 38, all volunteers; electric fire alarm, alarm bells in firemen's houses and public alarm on fire hall tower; 1 hook and ladder company, 2 hose companies. Chief engineer, John S. Fry.

WATER SUPPLY—Source, springs; system, gravity; 1 reservoir, cap 1,250,000 gals; 43 hydrants; pipe 6 miles, 6 to 12 in dia; 100 taps; pressure 75 to 110 pounds; waterworks owned by town; cost to construct \$40,000. Supt, E. F. Terria.

Dunville, Haldimand Co., population 2,000; fire area 900 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 1,100 ft, inferior 200 ft; value of fire department equipment \$3,000; value of buildings occupied \$6,500; ann expenses \$1,232; membership 47, volunteers; 4 paid; telephone alarm; 7 street boxes. Chief engineer, J. H. Smith.

WATER SUPPLY—Source, Grand river; pumping to reservoir and direct; reservoir cap 50,000 gals; pumping engines cap 1,000 gals per minute; 27 hydrants; pipe 3 miles, 6 and 4 in dia; 9 valves; 60 taps; pressure 40 to 120 pounds; works owned by town; cost to construct \$12,000; ann expenses \$1,000. Supt, J. N. Holmes.

Elmira, Waterloo Co., population 1,100; fire area 500 acres; mercantile buildings, brick, 2 stories; private, brick, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, rubber good 200 ft, cotton good 100 ft; value of fire department equipment \$1,000; value of buildings occupied \$400; total ann expenses of department \$5; volunteer members; bell alarm. Chief engineer, Peter Jansen.

WATER SUPPLY—Source, wells and fire cisterns.

Elora, Wellington Co., population 1,600; mercantile buildings, brick and stone, 3 stories; private, brick, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck, 3 hose carriages; hose, cotton good 500 ft, inferior 200 ft; value of buildings occupied \$1,000; total membership 15, volunteers; bell alarm. Chief engineer, William A. Cuthbert.

WATER SUPPLY—Source, wells, river and tanks. Town clerk, Alex. Petrie.

Essex, population 2,000; mercantile buildings, brick with metal roofs, 2 stories; private, wood, 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 1,000 ft; total ann expenses of department \$688; total membership 30, volunteers; steam whistle and bell alarm. Chief engineer, Charles Walters.*

WATER SUPPLY—Source, deep wells; system, pumping to reservoir; lower reservoir cap 95,000 gals; upper reservoir cap 40,000 gals; pumping engines, dy cap 20,000 gals; hydrants 35; pipe 8 miles, 10 to 4 in; taps 175; valves 9; pressure, domestic 30, fire 75 pounds; waterworks owned by town; original cost to construct \$27,000; ann expenses \$1,400. Supt. A. W. Gardner.

Exeter, Huron Co., population 2,000; fire area 1,200 acres; mercantile buildings, brick and wood, 2 stories; private, brick, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 hand engines, 2 hose carriages; hose, rubber good 600 ft, cotton good 600 ft; value of fire department equipment \$2,000; value of buildings occupied \$6,500; total ann expenses of department \$250; total membership 35, volunteers; bell alarm. Chief, Wm. Treble.

WATER SUPPLY—Source, wells and drains into tanks for fire protection.

Fenelon Falls, Victoria Co., population 1,400; buildings, wood and brick, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 2 chemical engines, 1 hose carriage; hose, cotton good 200 ft, rubber good 250 ft; value of fire department equipment \$780; total ann expenses of department \$100. Chief engineer, S. Neilson.

WATER SUPPLY—Source, canal and 2 creeks.

Fergus, Wellington Co., population 1,760; fire area 500 acres; mercantile buildings, stone, 3 stories; private, brick, wood and stone, 1½ and 2 stories; wooden roofs are permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 3 hose carriages, 1 extension ladder; hose, cotton good 1,000 ft, rubber good 300 ft; value of fire department equipment \$4,200; value of buildings occupied \$2,000; total ann expenses of department \$140; membership 13, volunteer members; bell alarm. Chief, John Thomson.

WATER SUPPLY—Source, wells, river and tank.

Flemington, Grey Co., population 800; fire area 1 sq mi.; buildings, brick and wood, 2 stories; shingle and gravel roofs. Fire department—1 hand engine, 1 chemical extinguisher; hose, cotton good 20 ft; total membership 10, volunteers. Chief engineer, W. J. Billamy.

WATER SUPPLY—Source, wells and mill pond.

Forest, Lambton Co., population 2,087; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1 and 2 stories, wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,400 ft; value of fire department equipment \$6,000; value of buildings occupied \$5,000; total ann expenses of department \$200; total membership 25, volunteers, paid part time 2; bell alarm. Supt. H. J. Pettypiece.*

WATER SUPPLY—Source, 5 tanks, R. R. reservoir. Town clerk, Harry Barron.

Galt, Waterloo Co., population 7,800; fire area 2,000 acres; mercantile buildings, brick and stone, 3 to 5 stories; private, brick and stone, 1 to 3 stories; shingles laid in mortar are permitted; fireworks ordinance; causes of fire investigated. Fire department—3 chemical extinguishers, 1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, cotton good 2,000 ft; 3 hoses, value \$900; value of fire department equipment \$3,500; value of buildings occupied \$5,000; total ann expenses of department \$2,000; total membership 13, paid full time 2, paid part time 11; telephone alarm. Chief engineer, J. Curtiss.

WATER SUPPLY—Source, springs; system, pumping to standpipe; reservoir cap 150,000 gals; standpipe cap 220,000 gals; pumping engines, dy cap 1,500,000 gals; 109 hydrants; pipe 14 miles, 12 to 4 in; 700 taps; 60 valves; pressure 80 to 50 pounds; waterworks owned by city; original cost to construct \$132,000; expenses of construction to date \$152,000. Supt. Peter Cowan.

Gananoque, Leeds Co., population 3,658; fire area 350 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick, 2½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, linen good 500 ft, rubber good 600 ft, inferior 350 ft; value of fire department equipment \$7,000; value of buildings occupied \$2,000; total ann expenses of department \$680; total membership 38, paid part time; electric alarm; 9 street boxes; 1 engine company, 1 hook and ladder company, 1 hose company, Chief, Jas. McKellar.*

WATER SUPPLY—Source, river; system, direct; pumping; pumping engines, cap 650 gals per min; 25 hydrants; pipe 2½ miles, 8 to 4 in dia; 7 valves; pressure 150 pounds; waterworks owned by town; cost to construct \$31,000; ann expenses \$200. Supt. C. H. Catton.

Georgetown, Halton Co., population 1,000; fire area 200 acres; mercantile buildings, stone and brick, 1½ to 3 stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,400 ft, rubber good 200 ft; value of equipment \$2,100; value of buildings occupied \$3,000; total membership 40, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief, Henry H. Speer.

WATER SUPPLY—Source, springs and reservoir; system, gravity; reservoir cap 400,000 gals; 35 hydrants; pipe 7 miles, 10 to 4 in dia; 26 valves; pressure 87 pounds; works owned by city; cost \$35,000. Supt. J. Barber.

Glencoe, Middlesex Co., population 1,050; fire area 200 acres; buildings, brick and wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 700 ft; value of fire department equipment \$2,500; value of buildings occupied \$400; ann expenses \$17.25; total membership 30, paid full time 1; bell alarm. Chief J. Foster.*

WATER SUPPLY—Source, tanks.*

Godolphin, Huron Co., population 4,000; fire area 1½ miles; mercantile buildings, brick, 2½ and 3 stories; private, brick and wood, 2 and 3 stories; roofs shingle, laid in mortar, gravel and plastic slate; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon, slamese couplings used; hose, cotton good 1,500 ft; 2 hoses, value \$200; value of fire department equipment \$3,000; value of buildings occupied \$1,500; total ann expenses of department \$550; total membership 11, paid; bell and electric alarm. Captain, Thos. Videa.

WATER SUPPLY—Source, 6 artesian wells; system, direct pumping; pumping engines, dy cap 1,800,000 gals; 52 hydrants; pipe 13 miles, 4 to 10 in dia; 30 valves; pressure, domestic 40, fire 75 to 100 pounds; waterworks owned by city; cost to construct \$68,000, to date \$74,000; ann expenses \$4,000. Supt. W. H. Smith.

Gravenhurst, Muskoka District, population 2,000; fire area 10 acres; mercantile buildings, brick, 2 stories; private, wood, 1½ stories; wooden roofs not permitted. Fire department—1 steam engine, 1 chemical engine on wheels (not used), 2 hose carriages; hose, linen good 2,000 ft, inferior 200 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,000; total membership 10, paid full time 1, volunteers 9; bell alarm. Engineer, Archy Sloan.

WATER SUPPLY—Source, lake; system, pumping to tank, cap 50,000 gals; pressure 100 pounds; works owned by city.

Guelph, Wellington Co., population 11,000; fire area 3 sq miles; buildings, stone and brick, 2 and 3 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, cotton good 3,500 ft, inferior 2,000 ft, leather inferior 1,000 ft, linen good 1,000 ft, rubber inferior 1,000 ft; 3 hoses, value \$525; value of fire department equipment \$10,500; value of buildings occupied \$6,000; expenses for past year \$2,400; membership 22, paid full time 1, paid part time 21; bell and telephone alarm; 13 street boxes. Chief engineer, A. Robertson.

WATER SUPPLY—Source, springs and river; sys-

tem, direct pumping; pumping engines, dy cap 1,500,000 gals; 118 hydrants; pipe 20 miles, 2 to 12 in dia; 60 valves; 4 meters; pressure, domestic 85, fire 120 to 130 pounds; waterworks owned by city; cost to construct \$100,000, cost to date \$140,000; ann expenses \$6,000. Supt, Richard Mitchell.

Hamilton, Wentworth Co., population 50,000; fire area 3,000 acres; mercantile buildings, brick and stone, 3 to 5 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 2 chemical engines on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 6 hose wagons, 1 70-ft extension ladder; hose, cotton good 6,000 ft, linen inferior 700 ft; 17 horses, value \$3,000; value of fire department equipment \$30,000; value of buildings occupied \$50,000; total ann expenses of department \$38,300; total membership 42, paid full time; electric alarm; 35 street boxes. Chief engineer, A. W. Aitichison.

WATER SUPPLY—Source, Lake Ontario through filter basin; system, pumping to reservoir; reservoir cap 11,000,000 imp. gals; pumping engines, dy cap 13,000,000 imp. gals; 624 hydrants; pipe 101 miles, pipe 6 to 20 in; 328 valves; 4 meters; pressure 20 to 75 pounds; waterworks owned by city; cost to construct \$1,300,000; ann expenses \$40,000. Supt and city eng, Wm. Haakins.

Harriess, Wellington Co., population 1,700; buildings, wood and brick, 1 to 3 stories; roofs shingle and iron. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 1,500 ft; total membership 8, paid part time; bell alarm. Chief engineer, Alexander Beach.

WATER SUPPLY—Source, river.

Ingersoll, Oxford Co., population 5,500; buildings, brick and wood, 1½ to 3 stories; wooden roofs permitted laid in mortar; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 1 hook and ladder truck, 4 hose carriages, 2 hose couplings used; hose, cotton good 800 ft, rubber good 1,200 ft; 2 horses; value of fire department equipment \$7,000; total membership 20, paid part time; bell alarm. Chief, engineer, George Craig.

WATER SUPPLY—Source, springs; system, pumping to standpipe and direct; standpipe cap 165,000 gals; steam pumping engines, dy cap 2,250,000 gals; 75 hydrants; 25 valves; pipe 8 miles, 4 to 12 in dia; 52 meters; pressure, domestic 70, fire 140 pounds; waterworks owned by company; cost to construct \$80,000. Supt, Geo. Duncan.

Iroquois, Dundas Co., population 1,100; fire area 20 acres; buildings, brick, stone and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 300 ft, rubber good 1,000 ft; 1 horse; value of equipment \$4,000; value of buildings occupied \$3,000; ann expenses \$500; membership 10, volunteers; bell alarm. Chief, James W. Nairn.

WATER SUPPLY—Source, St. Lawrence river; system, direct pumping; tank cap 100,000 gals; pumps dy cap 200,000 gals; 15 hydrants; pipe 2 miles; 6 valves; pressure, domestic 45, fire 80 pounds. waterworks owned by company; cost to construct \$18,000; ann expenses \$500. Supt, Gordon Service.

Jarvis, Haldimand Co., population 1,000; fire area 500 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine; hose, cotton good 150 ft; value of fire department equipment \$500. Chief engineer, J. W. Rodgers.

WATER SUPPLY—Source, wells.

Kempville, population 1,400; fire area 200 acres; mercantile buildings, brick and stone, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages, 2 hose couplings used; hose, cotton good 1,700 ft, rubber good 300 ft; 2 horses; value of fire department equipment \$8,000; value of buildings occupied \$3,500; total ann expenses of department \$300; total membership 30, volunteers; bell alarm. Chief, G. E. Hanna.

WATER SUPPLY—Source, river.

Kincardine, Bruce Co., population 3,000 fire area 1,280 acres; mercantile buildings, brick 2 and 3 stories; private, brick and wood, 1 to 2½

stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages, 15 leather buckets; hose, rubber good 1,200 ft, inferior 300 ft; value of fire department equipment \$10,000; value of buildings occupied \$1,000; total ann expenses of department \$200; total membership 40, volunteers; paid full time 2, paid part time 2; bell alarm. Chief, Andrew Allen.

WATER SUPPLY—Source, Lake Huron; system, pump to standpipe and direct; cap of standpipe 157,500 gals; pumping engines dy cap 1,500,000 gals; 34 hydrants; pipe 3¼ miles, 10 to 4 in dia; 23 valves; 6 meters; pressure from 40 to 125 pounds; works owned by company; cost to construct \$40,000. Supt, Joseph, H. Walker.

Kingston, Frontenac Co., population 19,384; fire area 900 acres; buildings, brick and stone, 2 to 5 stories; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 3 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 2 hose couplings used; hose, cotton good 3,200 ft, inferior 400 ft; 4 horses; value of fire department equipment \$18,000; value of buildings owned \$24,000; total ann expenses of department \$6,000; total membership 11, paid; telephone and electric alarm; 22 street boxes. Chief engineer, H. Youlden.

WATER SUPPLY—Source, Lake Ontario; system, pumping to standpipe and direct; tank cap 680,000 imperial gals; pumps, dy cap 4,500,000 gals; 196 hydrants; pipe 20 ¾ miles, 4 to 18 in dia; 256 valves; 40 meters; 2,327 tape; pressure 40 to 80 pounds; waterworks owned by city; cost to construct \$322,000; ann expenses \$8,400. Chairman, R. F. Elliott; supt, T. Hewitt.

Lakefield, Peterborough Co., population 1,200; fire area 500 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 1 hook and ladder truck, 2 hose carriages, all kind 1 hose wagon; hose, rubber good 400 ft, cotton good 600 ft, linen good 80 ft; 1 horse, value \$100; value of fire department equipment \$3,600; value of buildings occupied \$4,000; total ann expenses of department \$450; total membership 50, paid part time 2, volunteer members 48; bell alarm. Chief engineer, Peter Baptie.

WATER SUPPLY—Source, wells river and lake.

Leamington, Essex Co., population 2,500; fire area 350 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 1½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—3 hose carriages; 1 hand engine; hose, linen good 1,200 ft; value of fire department equipment \$2,000; value of buildings occupied \$3,500; total ann expenses of department \$1,600; total membership 31, volunteers; telephone alarm. Chief engineer, W. H. Ryall.

WATER SUPPLY—Source, flowing well; system, pumping direct and to reservoir; reservoir cap 50,000 gals; pumping engines, dy cap 1,000,000 gals; hydrants 28; pipe 4½ miles, 10 to 4 in; 75 tape; 10 valves; pressure, domestic 40, fire 75 to 100 pounds; waterworks owned by town; original cost to construct \$20,000; expenses of construction to date \$25,000; ann expenses \$1,600. Supt, W. H. Ryall.

Lindsay, Victoria Co., population 6,081; fire area 65 acres; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 2 and 3 stories; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 5 hose carriages, 1 hose wagon; hose, rubber good 2,000 ft, 2 horses, value \$300; value of fire department equipment \$4,000; value of buildings occupied \$1,200; total membership 13, paid full time; bell alarm. Chief engineer, Douglas Sinclair.

WATER SUPPLY—Source, Seaugor river; system, pumping to standpipe; standpipe cap 225,000 gals; 87 hydrants; pipe 6 1-2 miles, 4 to 12 in dia; 36 valves; pressure 67 to 110 pounds; waterworks owned by company. Supt, J. M. Knowlson.

Listowel, Perth Co., population 2,587; fire area 10 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 1½ and 2 stories; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages; hose, rubber good 1,700 ft, inferior 500 ft; value of fire

department equipment \$5,000; value of buildings occupied \$3,000; total ann expenses of department \$1,000; total membership 14, paid; bell and whistle alarm. Chief, J. F. Wilson.*

WATER SUPPLY—Source, river; system, direct pumping; 2 pumping engines, dy cap 1,000,000 gals; 12 hydrants; pipe 1 mile, 4 to 6 in dia; 4 valves; 30 taps; pressure 40 to 60 pounds; waterworks owned by company; cost to construct \$9,000; ann expenses \$1,500. Supt, Robt. Woods.

Little Current, District of Algona, population 1,100; fire area 75 acres; mercantile buildings, wood, 2 stories; private, wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 1,000 ft; value of fire department equipment \$2,800; value of buildings occupied \$500; total ann expenses of department \$400; total membership 40 volunteers; bell alarm. Chief engineer, R. Alexander.

WATER SUPPLY—Source, lakes and wells.

London, Middlesex Co., population 35,000; fire area 900 acres; mercantile buildings, brick, iron, stone and wood, 2 to 5 stories; private, brick and wood, 1 to 3 stories; wooden roofs permitted in fire limits if laid in mortar; fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage; 6 hose wagons; hose, cotton good 5,000 ft, inferior 1,120 ft, 9 hoses, value \$1,400 value of fire department equipment \$18,500; value of buildings occupied \$28,000; total ann expenses of department \$14,685; total membership 19, paid full time; electric alarm; 52 street boxes. Chief, John A. Roe.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 7,000,000 gals; 2 water power and steam pumps, dy cap 5,000,000 imp gals; 375 hydrants; pipe 75 miles, 4 to 18 in dia; 113 meters; pressure 80 pounds; waterworks owned by city; cost to construct \$556,773.18; ann expenses \$17,000. Pres, W. Jones; supt, J. M. Moore.

Louisville, Bothwell Co., population 100; buildings, wood, 1 and 2 stories. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 400 ft, inferior 500 ft; bell alarm.*

WATER SUPPLY—Source and system not given; 20 hydrants; pipe 3 miles; pressure 75 to 100 pounds. Supt, R. Lambert.

Lucknow, Bruce Co., population 1,500; fire area 640 acres; buildings, wood, brick and stone, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 1,000 ft, rubber good 200 ft, inferior 100 ft; value of fire department equipment \$18,000; value of buildings occupied \$8,000; total ann expenses of department \$600; total membership 21, paid full time 1 volunteer 20; bell alarm. Chief, Thomas Lawrence.

WATER SUPPLY—Source, spring, creek; system, pump direct; dy cap 800 gals per minute; 17 hydrants; pipe 1½ miles, 8, 6, 4 in dia; 6 valves; cost to construct \$10,000; ann expenses \$1,000. Supt, Thos. Douglas.*

Madoc, Hastings Co., population 1,400; buildings, brick, stone and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 2 chemical extinguishers, 1 hose carriage; 4 long ladders; hose, rubber good 550 ft; value of fire department equipment \$2,100; total ann expenses of department \$40; total membership 25, paid part time 1, volunteers 24, bell alarm. Chief engineer, Frank Embery.

WATER SUPPLY—Source, creeks and wells.

Markham, York Co., population 1,500; fire area ½ mile; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 2 hook and ladder trucks, 3 hose carriages, 1 hose wagon; factories have force pumps and 3,000 ft hose; hose, cotton good 1,000 ft; value of fire department equipment \$17,000; value of buildings occupied \$4,000; ann expenses \$500; total membership 40; electric alarm; 4 street boxes. Chief engineer, Jas. Gleason.

WATER SUPPLY—Source, springs; system, pumping to reservoir; reservoir cap 50,000 gals; hydrants 14; pipe 1 mile, 6 and 4 in; valves 6; pressure fire 150 pounds; waterworks owned by corporation; original cost to construct \$3,000. Supt, Wm. Barkey.

Mattawa, Nipissing District, population 2,000; fire area 500 acres; mercantile buildings, wood and brick, 2 stories; private, wood, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,400 ft; value of department equipment \$5,000; value of buildings occupied \$3,000; total membership 45, volunteers. Chief engineer, G. T. Smith.*

WATER SUPPLY—Source, River Ottawa, Mattawa river and Boom creek.*

Meadford, Grey Co., population 1,000; buildings, brick, 2 and 3½ stories. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, cotton good 1,200 ft, rubber good 250 ft; value of fire department equipment \$3,000; 1 building occupied; total ann expenses of department \$650; total membership 20, paid part time; telephone alarm. Chief engineer, W. S. Bates.

WATER SUPPLY—Source, river, wells, 8 tanks.

Merriton, Lincoln Co., population 1,613; fire area 500 acres; mercantile buildings, brick and stone, 1 and 2½ stories; private, brick and wood, 2½ stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 500 ft, cotton good 1,000 ft; value of fire department equipment \$3,000; value of buildings occupied \$7,000; ann expenses \$350; total membership 40, bell and whistle alarm. Chief, R. Clark.

WATER SUPPLY—Source, Lake Erie; system, gravity; pumping to reservoir; 50 hydrants; pipe 8 miles; 14 to 4 in; 20 valves; pressure 35 to 108 pounds; waterworks owned by town; cost to construct \$71,800; to date \$73,000; ann expenses \$450. Supt, R. Clark.

Midland, Simcoe Co., population 2,200; fire area 640 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 3 stories; wooden roofs permitted; fireworks ordinance on main street. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton rubber lined good 1,600 ft; 3 hoses; value of fire department equipment \$8,000; total membership 31, paid full time 1, volunteers 30; ordinary alarm. Chief engineer, John Preston.*

WATER SUPPLY—Source, wells.*

Millbrook, Durham Co., population 971; buildings, brick, 2 stories. Fire department—1 steam fire engine, 1 hand engine, 1 hose carriage; hose, rubber 1,150 ft; value of fire department equipment \$21,000. Chief engineer, A. Ferguson.

WATER SUPPLY—Source, creeks and 5 tanks.

Milton, Halton Co., population 1,500; fire area 75 acres; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,600 ft; value of fire department equipment \$1,800; value of buildings occupied \$5,000; ann expenses \$500; total membership 44, volunteers; bell alarm; 1 hook and ladder company, 2 hose companies. Chief, E. F. Earl.

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 150,000 gals; 17 hydrants; pipe 4½ miles, 8 to 4 in dia; 45 valves; 100 taps pressure 80 pounds; waterworks owned by town; cost to construct \$20,000. Supt, J. H. McCollon.

Mitchell, Perth Co., population 2,101. Fire department—3 hose carriages; hose, rubber good 300 ft, cotton good 1,400 ft; membership, volunteers. Chief, R. Ryan.*

WATER SUPPLY—Source, surface water; system, direct pumping; 2 pumping engines; 10 hydrants; pipe 6,500 ft, 4 and 6 in dia; waterworks owned by town; cost to construct \$15,000; ann expenses \$500. Chairman of com, T. S. Ford.*

Morrisburg, Dundas Co., population 2,100; fire area 640 acres; buildings, brick, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 3 hose carriages; hose, cotton rubber lined good 500 ft, rubber good 800 ft, linen good 300 ft; value of fire department equipment \$5,000; value of buildings occupied \$1,200; total ann expenses of department \$500; total membership 35, volunteers 30, electric alarm; 6 street boxes. Chief A. A. Logan.

WATER SUPPLY—Source, St. Lawrence river; system, direct pumping; pumping engines, dy cap

1,944,000 gals; 23 hydrants; pipe 3 miles, pressure domestic 40, fire 120 pounds; waterworks owned by town; cost to construct \$26,000; ann expenses \$400. Supt. Cyrus Casselman.*

Mt. Forest, Wellington Co., population 2,600; fire area 1,400 acres; mercantile buildings, brick, 2 and 3 stories; private, brick, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, hose, rubber good 150 ft; value of fire department equipment \$3,000; total ann expenses of department \$300; total membership 40, bell alarm. Chief engineer, Geo. Till.

WATER SUPPLY—Source, wells and cisterns.

Napanee, Lennox Co., population 3,400; fire area 1,200 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 1 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,500 ft. rubber good 2,000 ft; value of fire department equipment \$14,000; value of buildings occupied \$10,000; total ann expenses of department \$3,500; total membership 34, paid part time 32, paid full time 2; electric alarm; 8 street boxes. Chief engineer, Henry Worger.*

WATER SUPPLY—Source, Napanee river; system, direct pumping; standpipe cap 150,000 gals; water-power pumps, dy cap 2,000,000 gals; 33 hydrants; pipe 2½ miles, pressure, domestic 45, fire 120 pounds; waterworks owned by J. P. Northey; cost to construct \$35,000; ann expenses \$1,500. Town clerk, P. Enbury.*

New Hamburg, Waterloo Co., population 1,450; fire area 950 acres; mercantile buildings, brick, 3 stories; private, brick, 2 stories; no fireworks ordinance. Fire department—1 steam fire engine, 50 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 hose wagon; hose, cotton good 600 ft. linen good 500 ft; 2 hoses, value \$300; value of equipment \$1,200; value of buildings occupied \$2,000; total membership 15, paid part time. Chief, Christopher Ran.

WATER SUPPLY—Source, river and cistern.

New Market, York Co., population 2,081; fire area 50 acres; mercantile buildings, brick or rough cast, 2 to 3 stories; private, brick clad, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 1,500 ft, linen good 300 ft; value of fire department equipment \$2,500; value of building occupied \$2,000; total ann expenses of department \$300; total membership 78, volunteers; electric and bell alarm; 1 hook and ladder company, 1 hose company. Chief engineer, A. R. Watson.

WATER SUPPLY—Source, artesian wells; system, gravity and pumping to reservoir, cap 200,000 gals; pumping engines dy cap 1,500,000 gals; 32 hydrants; pipe 5 miles, 4 to 8 in dia; 30 valves, 3 meters; 160 taps; pressure, domestic 45, fire 100 to 150 pounds; works owned by town; cost to construct \$32,000; ann expenses \$650. Supt, H. S. Cane.

Niagara Falls, Welland Co., population 4,000; fire area 800 acres; buildings, wood, brick and stone, 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, rubber good 2,000 ft; value of fire department equipment \$5,500; value of buildings occupied \$4,000; total ann expenses of department \$300; total membership 100, volunteers; bell alarm. Chief engineer, John Wilson.

WATER SUPPLY—Source, Niagara river; system, direct pumping, reservoir cap 5,000,000 gals; pumping engines, dy cap 5,000,000 gals; 44 hydrants; pipe 8 miles, 6 to 13 in dia; 25 valves; 643 taps; pressure, domestic 80, fire 120 pounds; waterworks owned by town; cost to construct \$60,000; and expenses \$2,500. Supt, John Robinson.

North Toronto, population 1,641; fire area 2,500 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—hose, cotton 1,000 ft; 1 hose wagon, hook, ladders and axes etc; value of fire department apparatus \$1,100; value of buildings occupied \$600. Chief, Wm. J. Douglas.

WATER SUPPLY—Source, not stated.

Onnemece, Victoria Co., population 800; fire

area 500 acres; mercantile buildings, brick, 1½ and 2½ stories; private, wood, 1½ and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hand engines, 1 hook and ladder truck; hose, rubber inferior 150 ft; value of fire department equipment \$500; value of buildings occupied \$75; bell alarm. Chief engineer, T. J. Parsons.

WATER SUPPLY—Source, Pigeon river and mill pond.*

Orangeville, Dufferin Co., population 3,400; mercantile buildings, brick, 3 stories; private, brick and wood, 2 stories; shingles laid in mortar are permitted; fireworks ordinance. Fire department—2 stationary steam fire engines, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 600 ft, cotton good 200 ft, inferior 100 ft; value of buildings occupied \$2,500; total ann expenses of department \$1,000; total membership 16, paid full time 1, paid part time 12, volunteer members 3; bell alarm. Captain, John Patterson.

WATER SUPPLY—Source, Credit river; system, pumping to reservoir, cap 110,000 gals; 2 rotary pumping engines; 9 hydrants; pipe 1 mile, 6 in dia; pressure 60 to 110 pounds; waterworks owned by town; cost to construct \$10,000; ann expenses \$1,000. Supt, James Pickering.

Orillia, Simcoe Co., population 5,333; fire area 2,000 acres; buildings, brick, 2 stories; iron roofs. Fire department—2 hand engines, 1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages; hose, rubber 400 ft, cotton good 1,300 ft; value of fire department equipment \$4,000; value of buildings occupied \$2,000; total ann expenses of department \$500; total membership 25, volunteers; bell alarm. Chief engineer, R. Malner.

WATER SUPPLY—Source, lake and cistern.*

Oshawa, Ontario Co., population 4,100; fire area 2,400 acres; buildings, brick and wood, 1 to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 chemical engine on wheels, 50 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, alarm couplings used; hose, cotton good 400 ft, rubber good 2,000 ft, inferior 500 ft; value of fire department equipment \$18,000; 1 building occupied; total ann expenses of department \$1,100; total membership 35, full paid; bell alarm. Chief engineer, J. Fellow.

WATER SUPPLY—Source, tanks.

Ottawa, Carleton Co., population 44,154; fire area 4 sq miles; buildings, stone and brick, 2 to 5 stories; wooden roofs permitted when laid in mortar; fireworks ordinance. Fire department—2 steam fire engines, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 12 hose carriages, lumber mills have powerful pumps and 5,000 ft hose; hose, cotton and rubber good 13,000 ft, leather 800 ft; hoses 16, value \$4,000; value of fire department equipment and buildings occupied \$60,000; expenses for past year \$31,000; total membership 38, all paid; telegraph alarm. Chief engineer, W. Young.

WATER SUPPLY—Source, Ottawa river; system, direct pumping; pumping engines, dy cap 16,000,000 gals; 568 hydrants; pipe 70½ miles, 5 to 24 in dia; 639 valves; 6 meters; pressure, domestic 50 to 80, fire 75 to 110 pounds; waterworks owned by city; cost to construct \$1,520,614; ann expenses \$50,456. Manager, Robt. Surtees.

Owen Sound, Grey Co., population 7,497; buildings, brick, 2 to 4 stories; wooden roofs permitted when laid in mortar. Fire department—1 steam fire engine, 1 chemical extinguisher, 1 hook and ladder truck, 1 extension ladder, 5 hose carriages; hose, cotton good 3,500 ft; 2 hoses, value \$400; value of equipment \$12,000; ann expenses \$1,200; total membership 40, volunteers, 4 paid; telephone alarm; 15 alarm boxes. Chief, I. S. Johns.

WATER SUPPLY—Source, spring; system, gravity; reservoir cap 500,000 imperial gals; 72 hydrants; pipe 13 miles, 10 to 3 in dia; 58 valves; 12 meters; pressure 70 pounds; waterworks owned by town; cost to construct \$95,000; ann expenses \$850. Free, J. W. Redfern.*

Paisley, Bruce Co., population 1,328; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages, hooks, pails, etc.; hose, cotton good 400 ft, rubber good 850 ft; value of

fire department equipment \$3,300; value of buildings occupied \$1,450; total ann expenses of department \$400; total membership 50, part paid; bell and whistle alarm. Chief, Wm. W. Hogg.

WATER SUPPLY—Source, river; system, direct pumping; pumping engines, dy cap 4,000,000 gals; hydrants 8; pipe $\frac{1}{2}$ mile, 8 in dia; 4 valves; pressure 50 to 150 pounds; works owned by town; cost to construct \$15,000; ann expenses \$800. Supt, W. W. Brown.

Palmerston, Wellington Co., population 2,050; fire area 3 miles sq; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon; hose, rubber good 1,000 ft, inferior 1,000 ft; value of fire department equipment \$3,500; value of buildings occupied \$1,000; total ann expenses of department \$100; total membership 17, volunteers. Chief engineer, Thos. Williams.

WATER SUPPLY—Source, tanks.*

Paris, Brant Co., population 3,080; mercantile buildings, brick and concrete, 3 stories; private, brick, 1 and 2 stories; wooden roofs permitted outside of fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 1,200 ft; value of equipment \$7,000; value of buildings occupied \$1,000; ann expenses \$1,700; total membership 52, volunteers, including salvage corps; electric alarm; 7 street boxes. Chief engineer, John Kay.

WATER SUPPLY—Source, springs; system, pumping to reservoir, cap 1,000,000 gals; pumping engines, dy cap 360,000 gals; 26 hydrants; pipe 4 miles, 4 to 8 in dia; 12 valves; pressure 70 pounds; waterworks owned by town; cost to construct \$40,000; ann expenses \$1,837. Supt, John Brookbank.

Park Hill, Middlesex Parish, population 1,800; buildings, brick and wood, $\frac{1}{2}$ to 3 stories; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 2 hose carriages, ladders, etc; hose, cotton good 500 ft, rubber good 500 ft, inferior 50 ft; value of fire department equipment \$5,000; total membership 12, paid part time; bell and telephone alarm. Chief engineer, Oliver Baird.

WATER SUPPLY—Source, tanks, 10 cisterns, cap 50 barrels.

Perry Sound, McDougall Co., population 2,000; fire area 200 acres; mercantile buildings, wood, 2 stories; private, wood, $\frac{1}{2}$ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose reels, 1 hose sleigh; hose, cotton good 1,200 ft; value of fire department equipment \$2,000; value of buildings occupied \$1,200; total membership 35, volunteers; electric and bell alarm; 4 street boxes. Chief engineer, Alex Logan.

WATER SUPPLY—Source, Georgian Bay; system, pumping to standpipe; standpipe cap 30,000 gals; pumping engines, dy cap 1,352,400 gals; 27 hydrants; pipe 34 miles, 12 to 4 in; 110 taps; 9 valves; pressure, domestic 80, fire 120 pounds; waterworks owned by town; original cost to construct \$25,393. Supt, John E. Campbell.

Pembroke, Renfrew Co., population 4,401; buildings, wood, brick and stone, 1 to 3 stories; wooden roofs not permitted in fire limits; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 4 hose carriages, all kinds; hose, rubber good 400 ft, inferior 400 ft; cotton good 2,000 ft, inferior 400 ft; value of fire department equipment \$8,000; value of town hall \$15,000; total ann expenses of department \$400; total membership 35, volunteers; telephone and bell alarm. Chief engineer, Wm. Murray.

WATER SUPPLY—Source, Ottawa river; system, pumping to standpipe; standpipe cap 128,000 gals; pumping engines, cap 600 gals per minute; 53 hydrants; pipe 5 miles, 10, 8 and 6 in; 25 taps; 34 valves; pressure, domestic 73, fire 125 pounds; waterworks owned by town; original cost to construct \$48,000; ann expenses \$1,400. Engineer, G. W. McMartin.

Penetanguishene, Simcoe Co., population 2,300; fire area 50 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 and $\frac{1}{2}$ stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages, all kinds, 2 hose wagons; hose, linen good 2,000 ft; value of fire department

equipment \$2,000; value of buildings occupied \$4,000; total ann expenses of department \$900; total membership 30, volunteers; bell alarm.

WATER SUPPLY—Source, spring; system, pumping to reservoir, cap 60,000 gals; tank cap 40,000 gals; pumping engines, dy cap 1,000,000 gals; 35 hydrants; pipe 6 miles, 10 to 4 in dia; 10 valves; pressure, domestic 60 to 70, fire 80 to 120 pounds; works owned by town; cost to construct \$33,500; ann expenses \$810. Supt, R. A. Pearson.

Perth, Lanark Co., population 4,000; fire area 1 mile x $\frac{1}{2}$; buildings, brick, wood and stone, 1 to 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 5 chemical extinguishers, 2 hook and ladder trucks, 4 hose carts; hose, cotton good 2,000 ft, rubber good 800 ft; value of fire department equipment \$15,000; value of buildings occupied \$3,000; total membership 64, full paid; bell alarm. Chief engineer, D. R. Noonan.

WATER SUPPLY—Source, river and tanks.

Peterborough, Peterborough Co., population 9,717. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages; hose, cotton and rubber good 2,000 ft, inferior 300 ft; 6 horses; total membership 30, paid part time; electric alarm. Chief engineer, T. Rutherford.*

WATER SUPPLY—Source, Otonabee river; system, direct pumping; 2 water-power pumps, dy cap 2,000,000 gals; 102 hydrants; pipe 12 5-8 miles; 20 meters; 96 valves; pressure, domestic 75, fire 110 pounds; waterworks owned by company; cost to construct \$125,000; ann expenses \$3,000. Supt, Wilson Henderson.*

Petrolia, Lambton Co., population 4,357; fire area 38 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs permitted, laid in mortar; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 5 hose carriages; hose, rubber good 2,000 ft, inferior 500 ft, cotton good 500 ft, inferior 300 ft; value of fire department equipment \$12,500; value of buildings occupied \$4,000; total ann expenses of department \$3,043; total membership 75, paid full time 3, volunteers 72; bell alarm; 2 engine companies, 1 hook and ladder company. Chief engineer, T. G. Jackson.

WATER SUPPLY—Source, tanks and creeks. (Waterworks are being constructed.)

Pictou, Co. of Prince Edward, population 3,500; fire area 534 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; roofs mostly metal, shingles laid in mortar permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds, other apparatus, picks, poles, hooks, buckets, etc; hose, rubber new 1,000 ft, cotton good 300 ft, leather good 250 ft; value of fire department equipment \$2,500; total ann expenses of department \$650; total membership 23; electric alarm; 8 street boxes. Chief engineer, Angus Lighthall.

WATER SUPPLY—Source, an arm of Bay of Quinte, Lake Ontario; system, pumping to reservoir and direct; reservoir cap 400,000 gals; pumping engines, dy cap 400,000 gals; 40 hydrants; pipe 5 miles, 4 to 8 in dia; 25 valves; 75 taps; pressure 75 pounds; waterworks owned by town; cost to construct \$30,000; ann expenses \$2,000. Supt, R. A. Norman, Jr.

Plattsville, Oxford Co., population 1,000; mercantile buildings, brick, 2 stories; private, brick, $\frac{1}{2}$ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 250 ft, linen inferior 230 ft; value of fire department equipment \$600; value of buildings occupied \$200; total ann expenses of department \$50; total membership 40, volunteers. Chief, Robt. Baird.

WATER SUPPLY—Source, 3 large wells to be put in; mills and factories have pumps.

Point Edward, Lambton Co., population 1,464; buildings, brick and wood, $\frac{1}{2}$ to 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, canvas good 300 ft, rubber good 600 ft, inferior 100 ft, owned by the Grand Trunk Railway and equipped by their volunteer members; value of fire department equipment \$4,000; total membership 48, volunteers; steam whistle alarm.

WATER SUPPLY—Source, St. Clair river; system,

direct; hydrants; pressure 140 pounds. Town clerk, W. Mitchell.

Port Arthur, Thunder Bay District, population 2,669; buildings, brick and stone, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose reels, 1 hose wagon; hose, cotton good 8,000 ft, inferior 500 ft, rubber good 500 ft; 2 horses; value of equipment \$2,500; value of buildings occupied \$1,500; total membership 33, volunteers; bell alarm; 3 telephone boxes. Chief, W. C. Woodside.

WATER SUPPLY—Waterworks to be built by company. Town clerk, W. H. Langworthy.

Port Elgin, Bruce Co., population 1,852; fire area 100 acres; mercantile buildings, brick, 2 and 3 stories; private, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck; hose, rubber good 150 ft; value of fire department equipment \$1,200; value of buildings occupied \$700; total ann expenses of department \$200; total membership 36, volunteers; bell alarm; 1 engine company, 1 hook and ladder company. Chief engineer, Augustus Smith.

WATER SUPPLY—Source, wells; system, pumping to tanks; pumps, dy cap 400 bbls. (Waterworks contemplated.)

Port Hope, Durham Co., population 5,042; fire area whole town; mercantile buildings, brick, 3 and 4 stories; private, brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical engines on wheels, 1 hook and ladder truck, 1 aerial truck, 4 hose carriages, 2 chemical supply carts; hose, rubber good 1,000 ft, cotton good 800 ft; total ann expenses of department \$1,000; total membership 30, paid part time; electric bell alarm. Chief engineer, L. G. Missin.

WATER SUPPLY—Source, Smith's creek and mill dam; system, direct pumping; water pump; 33 hydrants; pipe 2 miles, 6 to 10 in dia; 2 valves; pressure 60 to 250 pounds; waterworks owned by town; cost to construct \$23,700; ann expenses \$150. Supt, John Gamble.

Port Perry, Ontario Co., population 1,700; fire area 600 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hand engines, 3 hose carriages; hose, cotton good 1,100 ft, inferior 100 ft; total ann expenses of department \$200; total membership 17, paid. Chief engineer, William Kennedy.

WATER SUPPLY—Source, lake and tank.

Portsmouth, population 1,734; buildings, wood and stone, 2 stories; wooden roofs permitted. Fire department—Penitentiary owns 1 hand engine.

WATER SUPPLY—Source, wells and lake.

Prescott, Greenville Co., population 3,000; fire area 640 acres; mercantile buildings, brick, 3 stories; private, brick and stone, 2 stories; wooden roofs permitted. Fire department—2 steam fire engines, 1 hook and ladder truck, 4 hose carriages; hose, linen good 1,300 ft, rubber good 350 ft, inferior 150 ft, leather good 850 ft, inferior 150 ft; 3 horses; value of fire department equipment \$47,600; value of buildings occupied \$3,000; total ann expenses of department \$500; total membership 25, volunteers; electric bell and telephone alarm. Chief engineer, Wm. J. Barnes.

WATER SUPPLY—Source, wells river and tank. Waterworks contemplated.)

Renfrew, Renfrew Co., population 2,800; fire area 500 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 20 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,000 ft, rubber inferior 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$150; total membership 65, volunteers; bell and telephone alarm. Chief engineer, Geo. Early, Jr.

WATER SUPPLY—Source, stream, wells and 8 tanks. Mayor, James Craig.

Richmond Hill, York Co., population 900; fire area 160 acres; buildings, concrete, brick, brick cased and wood, 1 1/2 stories; shingle, iron and gravel roofs. Fire department—2 hand en-

gines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,400 ft, rubber good 800 ft, inferior 300 ft; value of fire department equipment \$2,000; building occupied rented; total ann expenses of department \$150; total membership 40, volunteers; bell alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Capt. W. H. Pugsley.

WATER SUPPLY—Source, tanks.

Midgertown, Kent Co., population 2,600; fire area 1/2 mile sq; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 stories; wooden roofs not permitted in fire limits. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, cotton good 2,000 ft, inferior 100 ft; value of fire department equipment \$8,500; value of buildings occupied \$1,200; total ann expenses of department \$700; total membership 28, paid full time 1, paid part time 17, volunteer members 10; electric alarm. Chief engineer, Wm. McMaster.

WATER SUPPLY—Source, springs and tank.

Sarnia, Lambton Co., population 7,000; fire area 2,000 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages, 2 hose wagons; hose, rubber good 2,000 ft, inferior 400 ft; 4 horses; value of fire department equipment \$7,000; value of buildings occupied \$6,000; total ann expenses of department \$2,500; total membership 43, paid full time 7, paid part time 18, volunteers 24; bell and telephone alarm; 17 street boxes; 1 hook and ladder company, 1 hose company. Chief engineer, John O. Mahoney.

WATER SUPPLY—Source, River St. Clair; system, direct pumping; pumping engines, dy cap 3,000,000 gals; 139 hydrants; pipe 21 1/2 miles, 3 to 12 in dia; 238 valves; 8 meters; 1,277 taps; pressure, domestic, summer 85, winter 80, fire 60 to 120 pounds; waterworks owned by town; cost to construct to date \$85,000; ann expenses \$5,272. Supt, Robert Turner.

Sault Ste. Marie, East District of Algoma, population 3,000; fire area 500 acres; mercantile buildings, wood, stone and brick, 3 stories; private, wood and brick, 2 stories; wooden roofs permitted, but tin mostly used; no fireworks ordinance. Fire department—1 steam fire engine, 15 chemical extinguishers, 1 hook and ladder truck, 4 hose carriages; hose, cotton good 2,200 ft, inferior 400 ft; value of fire department equipment \$7,000; value of buildings occupied \$4,500; total ann expenses of department \$1,300; total membership 48, paid full time 1; 1 hook and ladder company, 2 hose companies; electric alarm. Chief engineer, Henry Barker.

WATER SUPPLY—Source, wells and river.

Seaford, Huron Co., population 2,641; fire area 150 acres; mercantile buildings, brick, 2 stories; private, brick and stone, 2 and 3 stories. Fire department—1 hook and ladder truck, 3 hose carriages; hose, rubber good 1,500 ft; value of equipment \$2,500; 40 volunteer members. Chief, Wm. H. Cline; chairman, E. Coleman.

WATER SUPPLY—Source, Spring creek; system, direct pumping; reservoir cap 400,000 gals; pumping engines, dy cap 907,200 gals; 16 hydrants; pipe 3 miles, 4 to 8 in dia; 4 valves; pressure, fire 100 pounds; waterworks owned by town; cost to construct \$16,000; ann expenses \$700. Supt, R. S. Roberts.

Shelburne, Dufferin Co., population 1,200; fire area 15 acres; mercantile buildings, brick, 3 stories; private, brick and iron, 2 stories. Fire department—1 chemical engine, 1 hose carriage, 1 hose tower, ladders; hose, cotton good 800 ft; total membership 44, all volunteers; bell alarm. Chief engineer, Wm. Jolly.

WATER SUPPLY—Source, wells; system, windmill, pumping to tank, cap of tank 80,000 gals; 7 hydrants; pipe 2,800 ft, 10 in dia; pressure 50 to 55 pounds; waterworks owned by village; cost to construct \$12,000. Supt, John Madill. (Present system of mains cover business section.)

Simcoe, Norfolk Co., population 2,674; fire area 1 sq mile; buildings, brick and wood, 3 stories. Fire department—2 steam fire engines, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft, rubber good 1,000 ft; value of fire department equipment about \$7,000; value of buildings occupied \$5,000; total ann expenses of

department \$1,000; total membership 44, paid full time 4, paid part time 22, remainder volunteers. Chief engineer, G. H. Luscombe.

WATER SUPPLY—Source, wells and pond. (Waterworks contemplated.)

Smith's Falls, Lanark Co., population 4,000; fire area 1 sq mile; buildings, brick, wood and stone, 2 and 3 stories. Fire department—1 steam fire engine, 75 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,500 ft; value of fire department equipment \$18,000; value of buildings occupied \$8,000; ann expenses \$900; membership 40, volunteers, bell alarm. Chief engineer, H. Beckett.

WATER SUPPLY—Source, Rideau river; system, pumping to standpipe, cap 40,000 gals; pump dy cap 1,500,000 gals; 4 hydrants; pipe 1-2 miles, 6 in dia; 6 valves; pressure, domestic 60, fire 100 pounds; waterworks owned by A. Foster; cost to construct \$21,000; ann expenses \$300.

Stayner, Simcoe Co., population 1,357; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 1-1-2 and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hose carriage, slamese couplings used; hose, cotton good 400 ft, inferior 200 ft, rubber good 200 ft; value of fire department equipment \$4,500; value of buildings occupied \$500; total ann expenses of department \$300; total membership 21, paid full time 1, paid part time 20; bell alarm. Chief engineer, Jas. Collaven.*

WATER SUPPLY—Source, pond, 8 tanks.*

St. Catharines, Lincoln Co., population 9,800; fire area 2 sq miles; buildings, brick and wood, 2 and 3 stories. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 1 hose wagon, 1 supply wagon; hose, linen good 4,800 ft, inferior 1,500 ft; 4 horses, value \$1,000; value of fire department equipment \$8,000; value of buildings occupied \$15,000; total membership 78, paid full time 2, part time 4, remainder volunteers; electric alarm; 23 street boxes. Chief engineer, F. P. Bogy.

WATER SUPPLY—Source, Lake Erie via Welland canal and Beaver dam creek; system, gravity; reservoirs, cap 295,000,000 gals; hydrants 800; pipe 25 miles, 4 to 20 in; taps 1,803; valves 227; meters 16; pressure 75 to 114 pounds; waterworks owned by city; original cost to construct \$275,000; expenses of construction to date \$330,000; ann expenses \$3,500. Supt, J. Albert Mills.

St. Mary's, Perth Co., population 3,416; buildings, wood, brick and stone, 2 and 3 stories; wooden roofs permitted, laid in mortar; fireworks ordinance. Fire department—1 steam fire engine, 4 chemical extinguishers, 1 hand engine, 1 hook and ladder truck, 3 hose carriages, slamese couplings used; hose, cotton good 1,200 ft, rubber good 900 ft; value of fire department equipment \$5,000; value of buildings occupied \$18,000; total ann expenses of department \$2,000; total membership 23, paid part time; bell alarm. Chief engineer, J. M. Maclean.

WATER SUPPLY—Source, 2 rivers, 3 tanks, cap of tanks 30,000 gals. Town clerk, L. Harstone.

St. Jerome, Terrebonne Co., population 3,500; mercantile buildings, brick and wood, 1 to 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance.*

WATER SUPPLY—Source, springs; system, gravity; pipe 7½ miles; quality of water good; waterworks owned by city; cost to construct \$20,000. Supt, J. J. H. Leclaire.

St. Thomas, Elgin Co., population 10,500; fire area 1,800 acres; mercantile buildings, brick, wood and stone, 1-1-2 to 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, slamese couplings used; hose, cotton good 1,100 ft, second class 900 ft; 4 horses, value \$500; value of fire department equipment \$8,000; value of buildings occupied \$5,000; expenses for past year \$4,000; total membership 18, paid full time 4, paid part time 14; telephone and gong alarm. Chief, A. Bowly.

WATER SUPPLY—Source, Kettle creek; system, direct pumping; pumping engines, dy cap 2,000,000 gals; cap of settling basin 7,000,000 gals; storage reservoir 7,000,000 gals; 156 hydrants; pipe 20 miles, 4 to 14 in dia; 115 valves; 35 meters; 900 taps; pressure, domestic 40, fire 120 pounds;

waterworks owned by city; cost to construct \$151,000. Supt, A. W. Campbell.

Stratford, Perth Co., population 9,501; buildings, brick, stone and wood; wooden roofs permitted. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages, 1 salvage outfit; hose, cotton good 2,600 ft, rubber good 700 ft; value of fire department equipment \$4,600; total ann expenses of department \$1,200; total membership 18, paid part time; bell and telephone alarm. Chief engineer, R. McNab.*

WATER SUPPLY—Source, Spring creek; system, direct pumping; 3 pumping engines, dy cap 4,500,000 gals; 82 hydrants; pipe 12 miles, 4 to 12 in dia; 53 valves; pressure, domestic 50, fire 85 pounds; waterworks owned by company; cost to construct \$25,580; ann expenses \$3,691. Pres and supt, John Corrie.

Strathroy, Middlesex Co., population 3,316; fire area 50 acres; mercantile buildings, brick, 2 and 3 stories; private, brick and wood, 2 and 3 stories; roofs felt, gravel and shingles laid in mortar. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages, force pumps, slamese couplings used; hose, cotton good 500 ft, poor 200 ft, rubber good 1,000 ft, inferior 300 ft; 2 horses; value of fire department equipment \$8,000; value of buildings occupied \$3,000; total ann expenses of department \$1,000; total membership 22, paid full time 1, paid part time 21; bell alarm. Chief, James Wood.

WATER SUPPLY—Source, river and 13 tanks; ann expenses \$700.*

Teeswater, Bruce Co., population 1,223; fire area 476 acres; mercantile buildings, brick and wood, 2 stories; private, wood, 1-1-2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft, cotton good 400 ft; value of fire department equipment \$11,000; value of buildings occupied \$1,500; expenses of past year \$650; total membership 27, volunteers; bell and electric alarm; 7 street boxes. Chief engineer, W. W. Johnston.

WATER SUPPLY—Source, Teeswater river; system, pump direct; 6 hydrants; pipe 3-4 mile, 6 in dia; cost to construct \$11,000; ann expenses \$900. Supt, John F. Nivina.

Thessalon, Algoma District, population 700; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 4 chemical extinguishers, 1 hose carriage; hose, cotton good 100 ft, linen good 200 ft; total membership 12, volunteers; horns alarm. Chief, J. Metcalf.

WATER SUPPLY—Source, tanks.

Thornhill, Welland Co., population 2,300; fire area 2,000 acres; buildings, brick, stone and wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 2 hose carriages; hose, cotton good 900 ft, rubber 300 ft, linen good 500 ft; value of fire department equipment \$7,000; value of buildings occupied \$5,000; total ann expenses of department \$550; total membership 35, volunteers; bell alarm. Chief engineer, Geo. Mable.

WATER SUPPLY—Source, canals, wells and river. Town clerk, Wm. T. Fish.

Tilbury Centre, Kent Co., population 850; fire area 300 acres; mercantile buildings, brick and wood, 2 stories; private, wood and brick, 1½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hook and ladder truck, 1 hose carriage, 1 hose wagon; hose, rubber good 1,000 ft; 1 horse, value \$100; value of fire department equipment \$1,625; value of buildings occupied \$900; total ann expenses of department \$350; total membership 18, volunteers; bell alarm. Chief engineer, James Sloan.

WATER SUPPLY—Source, Lake St. Clair; system, gravity; pumping engines, dy cap 750,000 gals; 9 hydrants; pipe 3 miles; valves; pressure, domestic 30 pounds, fire 80 pounds; waterworks owned by town; cost to construct \$15,000; ann expenses \$500. Supt, J. Kidd.

Tilseburg, Oxford Co., population 2,163; fire area 900 acres; mercantile buildings, brick, 3 stories; private, wood and brick, 2 stories; causes of fire investigated. Fire department—1 hook and ladder truck, 3 hose carriages, slamese couplings used; hose, cotton good 1,300 ft, rubber fair 500 ft; value of fire department equipment \$4,000; value of 2 buildings occupied \$2,500; total member

ship 13, paid; bell alarm. Chief engineer, John McDonald.

WATER SUPPLY—Source, surface water; system, direct pumping; 2 waterpower pumps; 23 hydrants; pipe 2 miles, 4 to 8 in dia; 1 valve; pressure 100 pounds; waterworks owned by village; cost to construct \$38,000; ann expenses \$500. Supt, Henry Boughner.*

Toronto, York Co., population 136,000; fire area 24 sq miles; mercantile buildings, stone and brick, 3 to 8 stories; private, stone and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—2 chemical engines on wheels, 4 chemical extinguishers, 4 hook and ladder trucks, 1 aerial truck, 11 hose carriages, all kinds, 4 hose wagons; hose, cotton good 16,250 ft, inferior 4,200 ft; 32 horses; total ann expenses of department \$155,388; total membership 123, paid full time; Gamewell alarm; 155 street boxes. Chief engineer, E. Ardagh.

WATER SUPPLY—Source, Lake Ontario; system, pumping direct; reservoir cap 40,000,000 gals; pumping engines, dy cap 30,000,000 gals; 2,838 hydrants; pipe 245 miles, 6 to 36 in dia; 2,000 valves; 1,568 meters; 39,978 taps; pressure 60 to 95 pounds; waterworks owned by city; cost to date \$3,700,000; ann expenses \$180,000. Supt, E. A. Keating. (A 10,000,000 gal pump is being constructed.)

Toronto Junction, York Co., population 4,519; fire area 1,100 acres; mercantile buildings, wood and brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 chemical engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 1,500 ft, chemical 200 ft; 6 horses, value \$350; value of fire department equipment \$12,000; value of buildings occupied \$9,000; total ann expenses of department \$3,900; total membership 22, paid full time 5; Gaynor electric alarm; 20 street boxes. Chief, John Robinson.

WATER SUPPLY—Source, Lake Ontario; system, direct pumping; pumping engines, dy cap 4,000,000 gals; 168 hydrants; pipe 20 miles, 4 to 12 in dia; 150 valves; pressure 40 to 100 pounds; waterworks owned by city; cost to construct \$200,000; ann expenses \$12,000. Supt, John Haggas.

Tottenham, Simcoe Co., population 700; fire area 400 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, brick, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose cart; hose, cotton rubber lined good 250 ft; value of equipment \$500; 50 volunteers; bell alarm. Chief, G. F. Hughes.

WATER SUPPLY—Source, mill pond, cistern and wells. Town clerk, Geo. Hughes.

Tremont, Hastings Co., population 4,364; fire area 50 acres; mercantile buildings, brick, 2 and 3 stories; private, wood and brick, 2 stories. Fire department—2 steam fire engines, 6 hose carriages, siamese couplings used; hose, cotton good 4,000 ft, rubber good 1,200 ft, inferior 1,500 ft; 7 horses; value of fire department equipment \$20,000; value of 2 buildings occupied \$8,000; total ann expenses of department \$2,500; total membership 41, volunteers; bell alarm. Chief, J. G. Squire.

WATER SUPPLY—Source, springs, river; system, gravity; pipe through principle streets with small tanks or casks at frequent intervals. Waterworks owned by company. Mgr, A. W. Hawley. (Waterworks contemplated.)

Uxbridge, Ontario Co., population 2,023; buildings, brick and wood, 1 to 3 stories; wood, iron and gravel roofs. Fire department—1 hand engine, 2 hose carriages; hose, linen good 400 ft, rubber good 1,200 ft; value of fire department equipment \$15,000; total ann expenses of department \$300; total membership 25, paid; bell alarm. Chief engineer, H. Wilson.*

WATER SUPPLY—Source, creeks and wells; system, direct pumping; pumping engine; 14 hydrants; pipe 3 miles; pressure 140 pounds; waterworks owned by town; cost to construct \$15,000; ann expenses \$300. Engineer, H. Wilson; caretaker, A. Wright.

Walkerton, Bruce Co., population 3,100; fire area 950 acres; buildings, brick and wood, 2 and 3 stories. Fire department—1 hand engine, 1 hook and ladder truck, 4 hose carriages; hose, rubber inferior 400 ft, cotton good 1,600 ft; value of ap-

paratus \$2,500; membership 50, volunteers. Chief, W. Kerney.*

WATER SUPPLY—Source, springs; system, gravity; reservoir cap 250,000 gals; pumping engine, cap 700 gals per minute; 30 hydrants; pipe 5 3-4 miles, 8 to 4 in dia; 22 valves; pressure, domestic 45, fire 55 to 75 pounds; works owned by town; cost to construct \$30,000, to date \$32,000; ann expenses \$1,200. Supt, W. A. Pulford.

Waterloo, Waterloo Co., population 3,000; mercantile buildings, brick, 2 to 4 stories; private, brick and wood, 1½ and 2 stories; wooden roofs laid in mortar permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds; hose, rubber good 600 ft, cotton good 1,500 ft; value of fire department equipment \$7,000; value of buildings occupied \$4,500; total ann expenses of department \$1,790; total membership 20, paid part time. Captain, C. Fenner.

WATER SUPPLY—Source, lake and springs; system, pumping to standpipe; standpipe cap 150,000 gals; pumping engines, dy cap 4,750,000 gals; hydrants 48; pipe 4½ miles, 10 to 4 in; taps 75; valves 18; pressure, domestic 75 to 85, fire 110 pounds; waterworks owned by company; original cost to construct \$35,000. Supt, J. E. Skidmore.

Watford, Lambton Co., population 1,290; buildings, brick and wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hose carriages; hose, cotton good 800 ft; value of fire department equipment \$2,000; total ann expenses of department \$300; total membership 45, paid part time 4; bell alarm. Chief, D. Roche.*

WATER SUPPLY—Source, 20 large tanks. Mayor, Joseph Hume; town clerk, J. Tulloch.

Welland, Welland Co., population 2,100; fire area 5 acres; buildings, brick and wood, 1 and 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, siamese couplings used; hose, cotton good 1,300 ft, inferior 200 ft, rubber good 300 ft; value of fire department equipment \$3,000; value of buildings occupied \$1,500; ann expenses \$800; total membership 45, paid part time; bell alarm. Chief engineer, W. E. Anger.

WATER SUPPLY—Source, Welland canal and Lake Erie; system, direct pumping; 2 waterpower pumps, dy cap 2,250,000 gals; 30 hydrants; pipe 5 miles, 8 to 4 in dia; 30 valves; pressure, domestic 80, fire 80 to 110 pounds; waterworks owned by town; cost to construct \$51,000. Chairman of com, D. Ross.*

Whitby, population 3,500. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 hose carriages; hose, rubber lined good 1,150 ft, leather 500 ft; total membership 30, volunteers. Chief engineer, J. Stanton.*

WATER SUPPLY—Source, 11 underground tanks, cap 20,000 gals each. Town clerk, T. Huston.

Warton, Bruce Co., population 2,360; fire area 700 acres; mercantile buildings, wood, stone and brick, 2 and 3 stories; private, wood and brick, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 800 ft; value of fire department equipment \$2,500; value of buildings occupied \$2,000; total ann expenses of department \$2,000; total membership 40; telephone alarm. Chief engineer, Thomas Gilpin.

WATER SUPPLY—Source, Lake Huron; system, pumping direct; hydrants 27; pipe 3 miles, 6 and 4 in; taps 300; pressure, domestic 150, fire 300 pound; waterworks owned by city; original cost to construct \$25,000.

Windsor, Essex Co., population 11,000; fire area 2,500 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, wood, 1 and 2 stories; wooden roofs not permitted. Fire department—1 hook and ladder truck, 3 hose carriages; hose, cotton good 2,500 ft, rubber good 2,000 ft; 4 horses, value \$600; value of fire department equipment \$7,000; value of buildings occupied \$3,500; total ann expenses of department \$16,418; total membership 30, paid full time 3, paid part time 27; National alarm; 24 street boxes; 1 hook and ladder company, 3 hose companies. Chief, Geo. Cheyne.

WATER SUPPLY—Source, Detroit river; system, direct pumping; pumping engines, dy cap 7,500,000 gals; 250 hydrants; pipe 27 miles, 4 to 16 in dia; 208 valves; 26 meters; 2,800 taps; pressure,

domestic 55, fire 80 to 120 pounds; waterworks owned by city; cost to construct \$275,000; ann expenses \$10,000. Chief engineer, Jos. Hall.

Wingham, Huron Co., population 2,187; fire area 100 acres; mercantile buildings, brick, 2, 3 and 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted. Fire department—2 hose carriages, slamese couplings used; hose, cotton good 2,004 ft; value of fire department equipment \$1,600; value of 2 buildings occupied \$1,400; total ann expenses of department \$575; total membership 10, paid part time; electric alarm; 6 street boxes. Chief, Geo. Pettypiece.*

WATER SUPPLY—Source, Mattland river; system, direct pumping; pumping engines; 9 hydrants; pipe 1 mile, 1½ to 6 in dia; pressure 120 pounds; waterworks owned by town; cost to construct \$8,000. Supt, Geo. Pettypiece.*

Woodstock, Oxford Co., population 9,200; fire area 1,200 acres; mercantile buildings, brick, 3 stories; private, brick, 2 stories; wooden roofs permitted if laid in mortar; fireworks ordinance. Fire department—2 hook and ladder trucks, 3 hose carriages, all kinds; hose, rubber good 1,000

ft; 2 horses, value \$200; electric alarm. Chief engineer, George Johnston.

WATER SUPPLY—Source, springs; system, direct pumping; pumping engines, dy cap 2,800, 000 gals; 120 hydrants; pipe 19 41-100 miles, 12 to 4 in dia; 140 valves; 2 meters; 650 taps; pressure, domestic 75, fire 125 pounds; waterworks owned by city; cost to construct \$153,000; ann expenses \$5,000. Supt, G. C. Eden.

Places having a population of 1,000 and upward that have no fire protection: Alexandria, Glengarry Co., population 1,614; Arthur, Wellington Co., population 1,450; Brighton, Northumberland Co., population 1,470*; Colborne, Northumberland Co., population 1,068; Eranville, Renfrew Co., population 1,000; Fort William, District of Algoma, population 1,500; waterworks contemplated; Hanover, Grey Co., population 1,500*; Hantville, Muskoka District, population 1,500*; L'Orignal, Prescott Co., population 1,000*; Parkdale, York Co., population 5,000*; Rat Portage, District of Algoma West, population 2,000*; Rodney, Elgin Co., population 1,900; Southampton, Sauguen P. O., Bruce Co., population 1,437.

PRINCE EDWARD ISLAND.

Charlottetown, Queens Co., population 11,374; mercantile buildings, wood, 3 and 4 stories; private, wood and brick, 2½ to 4 stories; wooden roofs permitted; causes of fire investigated. Fire department—2 steam engines, 1 hand engine, 1 hook and ladder truck, 7 hose carriages, 1 salvage wagon, slamese couplings used; hose, cotton good 2,000 ft, rubber good 1,000 ft, inferior 1,000 ft; 3 horses; value of fire department equipment \$18,000; value of buildings occupied \$20,000; total ann expenses of department \$2,500; total membership 65, paid full time 3, part time 56; electric alarm; 15 street boxes. Chief, A. N. Large.

WATER SUPPLY—Source, well, 22 ft deep by 20 in dia, 2½ miles from city; system, pumping to reservoir, cap 2,250,000 gals; pumping engines, dy cap 2,000,000 gals; 92 hydrants; pipe 19 miles, 4 to 14 in dia; 217 valves; 4 meters; pressure, domestic 65 to 60, fire 80 to 85 pounds; waterworks owned by city; cost to construct to date \$201,266; ann expenses \$3,650. Supt, Chas. Dalziel.

Georgetown, Kings Co., population 1,100; fire area 70 acres; buildings, wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, each householder must have leather buckets and ladders. Chief, John Lavery.*

WATER SUPPLY—Source, wells.*

Summerside, population 3,000; mercantile buildings, wood, 2½ stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 2 hand engines, 12 chemical extinguishers, 4 hose carriages, 1 hose wagon; hose, cotton good 1,200 ft, inferior 100 ft, rubber good 500 ft, leather good 400 ft, leather inferior 200 ft; 3 horses, value \$300; value of fire department equipment \$7,300; total ann expenses of department \$500; total membership 55, paid full time; bell alarm; 3 engine companies. Chief, Thos. Frissel.

WATER SUPPLY—Source, wells and 5 tanks. Mayor, Richard Hunt.

QUEBEC.

Aylmer, Ottawa Co., population 1,726; fire area 1 sq mile; mercantile buildings, brick and wood, 2 and 3 stories; private, brick, stone and wood, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 20 chemical extinguishers, 2 hose carriages, 1 hose wagon; hose, rubber good 500 ft, cotton good 1,500 ft, linen good 1,000 ft, inferior 300 ft; value of fire department equipment \$5,000; value of buildings occupied \$300; total ann expenses of department \$600; total membership 40, paid full time 1, paid part time 2, volunteers 37; bell alarm. Chief engineer, J. J. Godwin.

WATER SUPPLY—Source, wells and river.

Beauport, population 1,200; no organized fire department; 1 steam fire engine, 2 horse-power engines, 1 hook and ladder truck, 6 hose carriages; hose, cotton and rubber 1,500 ft.*

WATER SUPPLY—Source, inexhaustible cisterns.*

Castlecooke, Standard Co., population 3,500; buildings, wood, 2 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 10 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, linen good 1,000, inclined 1,000 ft, inferior 500 ft; value of fire department \$7,000; total ann expenses of department \$450; total membership 32, volunteers; bell, telephone and whistle alarm. Chief engineer, C. Lowell.*

WATER SUPPLY—Source, springs; system, gravity; pipe 6 miles, 1½ to 4 in dia; pressure, domestic 65 pounds; cost to construct \$16,000; ann expenses \$500. Pres, H. Lovell; supt, Dr. E. Ioea.

Cote St. Louis, Montreal Co. (See Montreal.)
Cote St. Paul, population 3,000; fire area 640 acres; mercantile buildings, brick and wood, 2 to 3 stories; private, brick and wood, 1 and 2 sto-

ries; wooden roofs permitted. Fire department—1 steam fire engine, 3 hand engines, not used, 2 chemical extinguishers, 3 sets ladders, 3 hose reels, pails, hand grenades and extinguishers in factories; hose, cotton good 1,500 ft, linen unlined 800 ft; value of fire department equipment \$6,500; value of buildings occupied \$5,000; total ann expenses of department \$60; total membership 50, volunteers; bell alarm; assistance rendered by Montreal department in case of necessity. Chief, Jos. A. Dunn.

WATER SUPPLY—Source, St. Lawrence river; pipe 3½ miles; hydrants 27; valves 36; 3 meters; dy cap 4½ million gals. Supt, A. Carroll.*

Danville, population 1,000; fire area 1-6 mile sq; buildings, brick and wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, rubber good 500 ft; value of fire department equipment \$2,000; total membership 25, volunteers. Chief, Brown.

WATER SUPPLY—Source, stream.

Hull, Ottawa Co., population 14,000; fire area 2,500 acres; buildings, stone and wood, 1 to 3 stories; wooden roofs not permitted in city; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 8 hose carriages, 1 hose wagon; hose, cotton good 2,000 ft, poor 400 ft, rubber good 1,500 ft, poor 200 ft; 3 horses, value \$600; value of fire department equipment \$8,000; value of buildings occupied \$10,000; expenses of department for past year \$7,700; membership 20, paid full time 6, part time 9, volunteers 30; electric alarm; 20 street boxes. Chief engineer, George Jesmer.

WATER SUPPLY—Source, Ottawa river; system, pumping to reservoir and direct, pumping engines, dy cap 5,000,000 gals; 74 hydrants; pipe 3 miles, 5 to 10 in dia; 66 valves; pressure, domestic 60, fire 90 pounds; waterworks owned by city.

cost to construct \$10,000; ann expenses \$5,000. Supt. Geo. Jessier.

Huntington, Huntington Co., population 1,100; fire area 640 acres; mercantile buildings, brick and wood, 2 stories; private, brick and wood, 1½ and 2 stories; wooden roofs permitted. Fire department—1 hand engine, 2 hose carriages; value of fire department equipment \$1,500; value of buildings occupied \$2,000; total ann expenses of department \$168; total membership 16, paid part time; bell alarm. Chief, Eben Henry.

WATER SUPPLY—Waterworks proposed; surveys have been made. Mayor, D. Boyd.

Iberville, population 1,719; buildings, wood and brick, 2 stories; wooden roofs permitted. Fire department—1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,000 ft; value of fire department equipment including waterworks \$35,000; total membership 60, volunteers; steam gong alarm.*

WATER SUPPLY—Source, river; system, direct pumping; 2 steam pumping engines, dy cap 8,640,000 gals; 35 hydrants; pipe 4½ miles; 10 valves; pressure, domestic 60 to 70, fire 120 pounds; waterworks owned by city; cost to construct \$30,000; to date \$45,000; ann expenses \$1,800.

Joliette, Joliette Co., population 3,604; fire area 35 acres; mercantile buildings, brick and stone, 3 and 4 stories; private, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 3 hose carriages, all kinds, siamese couplings used; hose, linen (rubber lined) 1,500 ft; 2 horses, value \$400; value of fire department equipment \$11,000; value of 2 buildings occupied \$12,000; total ann expenses of department \$1,828; total membership 8, paid full time 5, paid part time 2; bell alarm. Chief engineer, N. Rivard.

WATER SUPPLY—Source, L'Assomption river; system, direct pumping; pumping engines, dy cap 5,300,000 gals; 32 hydrants; pipe 7 miles, 4 to 8 in dia; 7 valves; pressure, domestic 50, fire 70 to 100 pounds; waterworks owned by town; cost to construct \$40,000; ann expenses \$1,000. Supt. Pierre Laforet.

Lachine, Jacques Cartier Co., population not given; fire area 1,380 acres; mercantile buildings, brick and wood, 1 and 2 stories. Fire department—1 steam fire engine, chemical extinguishers, 3 hose carriages, siamese couplings used, 3 engines owned by factories; hose, linen rubber lined good 1,400 ft, leather good 1,850 ft; value of fire department equipment \$6,000; value of buildings occupied \$2,000; total ann expenses of department \$2,000; total membership 22, paid part time 17; bell alarm. Capt. Arthur Thesureau.*

WATER SUPPLY—Source, St. Lawrence river; system, direct pumping; pumping engines, dy cap 1,500,000 gals; 56 hydrants; pipe about 6 miles, 4 to 14 in dia; 56 valves; 10 meters; 775 taps; pressure, domestic 40, fire 150 pounds; works owned by city; cost to construct to date \$100,000; ann expenses \$5,148. Supt. Arthur Thesureau.

Lachine, Argenteuil Co., population 1,700; fire area 3 miles; mercantile buildings, wood and brick, 2 stories; private, wood and brick, 1½ and 2 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 400 ft inferior 400 ft; value of fire department equipment \$1,080. Chairman of fire com. J. R. McOnat.

WATER SUPPLY—Waterworks contemplated.

Laprairie, population 1,600. Fire department—1 steam fire engine, 1 ladder wagon, 2 hose carriages; hose, cotton good 500 ft, rubber fair 500 ft, linen fair 500 ft; total membership 50, volunteers. Capt. Bisailion.*

WATER SUPPLY—Source, St. Lawrence river; system, pump to reservoir; cap 40,000 gals; pumping engines, dy cap 144,000 gals; pipe 7 miles, 4 in dia; 8 valves; pressure 20 to 60 pounds; cost to construct \$17,000; ann expenses \$1,000. Pres and supt. A. A. Demers.

Lennoxville, population 1,038; fire area 2,845 acres; mercantile buildings, brick, 2½ and 3 stories; private, brick and wood, 2½ and 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 2 chemical extinguishers, 3 hose carriages, all kinds; hose cotton good 250 ft, rubber good 500 ft, poor 150 ft;

bell alarm. Chief engineer, Thos. Dandin. **WATER SUPPLY**—Source, river and cisterna.

Levis, Levis Co., population 8,500; mercantile buildings, wood and brick, 3 stories; private, wood, 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—3 steam fire engines, 2 hand engines, 5 chemical extinguishers, 8 hook and ladder trucks, 8 hose carriages, all kinds; hose, rubber good 2,000 ft, inferior 1,500 ft, cotton good 4,000 ft, linen good 400 ft; 5 horses, value \$1,400; value of fire department equipment \$35,000; value of buildings occupied \$30,000; total ann expenses of department \$9,125; total membership 41, paid full time 16, paid part time 25; telephone alarm; 96 street boxes. Chief engineer, G. Denis.

WATER SUPPLY—Source, river and cisterna.*

Longueuil, Chambly Co., population 2,757; mercantile buildings, stone, brick and wood, 50 ft; private, stone, brick and wood, 1 and 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 6 hose carriages; hose, cotton good 1,400 ft, rubber good 500 ft; 1 horse, value \$100; value of fire department equipment \$3,300; value of buildings occupied \$200; total ann expenses of department \$1,000; total membership 7, paid full time; electric and bell alarm; 3 street boxes. Chief engineer, F. X. Lefebvre.*

WATER SUPPLY—Source, St. Lawrence river; system, direct pumping; pumping engines, dy cap 750,000 gals; 52 hydrants; pipe 8 miles, 4 to 8 in dia; 32 valves; pressure, domestic 60 to 70, fire 100 pounds; works owned by city; cost to construct \$80,000, to date about \$84,000; ann expenses \$2,000. Supt. J. A. Garlepy.

Louisville, Maskinonge Co., population 1,500; fire area 28 acres; mercantile buildings, 20 ft; private, 40 ft; wooden roofs permitted. Fire department—2 steam fire engines, 1 hand engine, 1 chemical engine on wheels, 4 chemical extinguishers, 2 hook and ladder trucks, 2 hose carriages; hose, cotton good 2,000 ft, rubber good 100 ft, leather good 100 ft; 1 horse, value \$100; value of fire department equipment \$2,500; value of buildings occupied \$1,000; total ann expenses of department \$50; total membership 12, volunteers, paid by hour; bell alarm. Chief, Phil Langlois.

WATER SUPPLY—Source, aqueduct pump.

Montreal, Montreal Co., population estimated 220,000; fire area 5,972 acres; mercantile buildings, stone and brick, 4 to 8 stories; private, wood and brick, 3 and 4 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—9 steam fire engines, 3 chemical engines on wheels, 4 chemical extinguishers, 7 hook and ladder trucks, 6 aerial trucks, 30 hose carriages, all kinds, 1 water tower, 3 salvage wagons, 1 siamese wagon, 17 stations; hose, cotton good 28,600 ft; 105 horses, value \$21,000; value of fire department equipment \$175,000; value of buildings occupied \$326,000; total ann expenses of department \$180,000; total membership 180, paid full time; Gamewell alarm; 231 street boxes; salvage corps supported by insurance companies and city, 12 members. Chief, Z. Benoit.

WATER SUPPLY—Source, St. Lawrence river; system, pumping to reservoir and direct; 2 reservoirs, cap 39,000,000 imp gals; pumping engines, dy cap 37,500,000 imp gals; 1,995 hydrants; pipe 210 miles, 4 to 30 in dia; 2,701 valves; 779 meters; pressure, domestic 40 to 125, fire 40 to 187 pounds; waterworks owned by city; cost to construct \$8,308,915; ann expenses \$180,000. Supt. A. Davis.

Ormatown, Chateauguy Co., population 1,000; fire area 640 acres; mercantile buildings, brick, 2 stories; private, brick and wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hose carriage, bucket brigade; hose, leather good 400 ft; 1 horse, value \$200; value of buildings occupied \$500; total ann expenses of department \$500; total membership 25, paid part time; bell alarm. Chief, C. A. McNea.*

WATER SUPPLY—Source, river and wells.

Quebec, Quebec Co., population about 70,000; fire area 1,800 acres; mercantile buildings, brick, stone and wood, 3 stories; private, brick, stone and wood cased with brick, 2 stories; wooden roofs not permitted; fireworks ordinance; causes of fire investigated. Fire department—2 steam fire engines, 6 chemical extinguishers, 3 hook and

ladder trucks, 1 aerial truck, 9 hose reels in use, 7 in reserve; hose, cotton good 50,000 ft, linen good 2,000 ft; 28 horses; value of fire department equipment \$50,000; value of buildings occupied \$35,000; total ann expenses of department \$35,000; total membership 50, paid full time; Gamewell alarm; 100 street boxes. Chief engineer, Philippe Darval.

WATER SUPPLY—Source, Lake St. Charles; system, gravity; 327 hydrants; pipe 64½ miles, 4 to 30 in dia; 348 valves; pressure, domestic 50 to 80, fire 83 to 100 pounds; waterworks owned by city; cost to construct \$2,350,000; ann expenses \$30,000. Supt, Jere Gallagher.

Richmond, Richmond Co., population 2,900; mercantile buildings, wood and brick, 1½ and 2 stories; private, wood and brick, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 hook and ladder truck, 2 hose carriages, all kinds, other apparatus, buckets, etc; hose, good 900 ft; volunteer brigade. Chief, Robert Ratray.

WATER SUPPLY—Source, brook; 15 hydrants; pipe 4½ miles, 9 to 4 in; taps about 300; 5 valves; pressure 50 pounds; waterworks owned by company; original cost to construct about \$17,000; ann expenses \$250. Supt, G. A. Bedard.

Mimouski, population 1,470; fire area 100 acres; mercantile buildings, wood and brick, 1 and 2 stories; private, wood, brick and stone, 1 and 2 stories; wooden roofs permitted. Fire department—1 nozzle hand engine, private chemical extinguishers; bell alarm. Chairman of fire com; J. A. Talbot.*

WATER SUPPLY—Source, wells; system, wind-mill pumping to reservoir; 2 reservoirs; pipe 1-4 mi. Town clerk, F. J. Conture.

Sherbrooke, Sherbrooke Co., population 9,500; fire area 2 sq miles; mercantile buildings, brick and stone, 2½ to 3 stories; private, wood, 2 and 2½ stories; wooden roofs permitted; no fireworks ordinance. Fire department—2 steam fire engines, 1 chemical engine on wheels, 11 chemical extinguishers, 2 hook and ladder trucks, 5 hose carriages, 1 hose wagon; hose, linen good rubber lined 2,000 ft, unlined 800 ft, rubber good 2,500 ft; 11 horses, value \$1,200; value of fire department equipment \$18,000; value of building occupied \$12,000; total ann expenses of department \$5,563; total membership 23, paid full time 18, part paid 5; telegraph alarm; 75 street boxes, with 17 private; 3 fire companies. Chief, Robert Davidson.

WATER SUPPLY—Source, Magog river; system, pumping to reservoir, cap 3,500,000 gals; pumping engines, dy cap 1,400,000 gals; 63 hydrants; pipe 10 miles, 4 to 12 in dia; 70 valves; 16 meters; 650 taps; pressure 20 to 110 pounds; waterworks owned by company; cost to construct \$130,000; ann expenses \$4,000. Supt, A. Sangster.

St. Anne, De La Pocatine Co., population 1,900; fire area 100 acres; mercantile buildings, wood 1½ stories; private, wood, 1½ stories; wooden roofs permitted; no fireworks ordinance; causes of fire investigated. Fire department—2 hand engines, 2 hose carriages; hose, linen good 2,500 ft; value of fire department equipment \$2,000; total ann expenses of department \$150.*

WATER SUPPLY—Source, Ottawa river.

St. Henri, Hochelaga Co., population 16,000; fire area 300 acres; mercantile buildings, stone and brick, 3 to 4 stories; private, brick and wood, 2½ and 3 stories; wooden roofs not permitted on main streets; fireworks ordinance; causes of fire investigated. Fire department—1 steam fire engine, 6 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 2 hose carriages; hose cotton good 3,000 ft, rubber good 1,000 ft, inferior 500 ft, linen good 500 ft; 3 horses, value \$400; value of fire department equipment \$10,000; value of buildings occupied \$25,000; total ann expenses of department \$11,000; total membership 18, paid full time; telegraph alarm; 40 street boxes. Chief, J. M. Massey.

WATER SUPPLY (from St. Cunegonde system)—Source, St. Lawrence river; system, direct pumping; pumping engines; 36 hydrants; pipe 16 miles, 14 to 4 in dia; 12 meters; pressure, domestic 50, fire 75 pounds; waterworks owned by Berger & Belque; cost to construct \$112,000. Supt, C. F. Porter.*

St. Hyacinthe, St. Hyacinthe Co., population 7,016; mercantile buildings, brick, 3 and 4 stories; private, brick and wood, 10 to 14 ft. Fire depart-

ment—3 steam fire engines, 4 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,000 ft, rubber good 1,500 ft, leather good 500 ft, linen 500 ft; 4 horses, value \$800; value of fire department equipment \$13,000; value of buildings occupied \$25,000; total ann expenses of department \$5,000; total membership 18, paid full time 8, paid part time 10; electric alarm; 16 street boxes. Chief, M. Benoit.*

WATER SUPPLY—Source, Yamaska river; system, direct pumping; pumping engines, dy cap 2,900,000 gals; 80 hydrants; pipe 32 miles, 4 to 10 in dia; 120 valves; 1,428 taps; pressure, domestic 50 to 60, fire 60 to 110 pounds; works owned by company; cost to construct \$50,000, to date \$155,000; ann expenses \$3,000. Supt, M. A. Connell.

St. Jean Baptiste, (see Montreal).

St. Jerome, Terrebonne Co., population 4,000; fire area 640 acres; mercantile buildings, brick and wood, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs permitted. Fire department—1 steam fire engine, 1 hand engine, 2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages; hose, cotton good 2,800 ft, rubber inferior 600 ft; value of fire department equipment \$9,000; value of building occupied \$5,000; total ann expenses of department \$500; total membership 18, volunteers 15; electric alarm; 6 boxes. Capt, A. Fiset.

WATER SUPPLY—Source, springs; system, gravity; 6 reservoirs, dy cap 2,000,000 gals; pipe 10 miles, 1 to 6 in dia; cost to construct \$30,000; ann expenses \$800. Supt, P. Verzina.

St. John, St. Johns Co., population 5,000; fire area 1,261 acres; mercantile buildings, brick and stone, 2 and 3 stories; private, brick, stone and wood, 2 and 3 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 8 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 2 hose reels, 1 coal cart, etc; hose, cotton good 3,500 ft, rubber inferior 2,000 ft; 8 horses, value \$400; value of equipment \$15,000; value of buildings occupied \$9,500; ann expenses \$1,754; membership 25, paid full time 5, volunteers; Gamewell alarm; 10 street boxes. Chief, Pierre Bouchard.

WATER SUPPLY—Source, Richelieu river; system, pumping to reservoir and direct; reservoir cap 27,000 gals; 2 pumping engines, dy cap 1,440,000 gals; 56 hydrants; 75 valves; pipe 16 miles; 13 meters; pressure, domestic 30 to 35, fire 80 to 100 pounds; waterworks owned by L. Mollere's Sons; cost to construct \$135,000; ann expenses \$2,500. Supt, A. Cartier, Jr.*

St. Sauveur, (see Quebec).

Sorel, William Henry Co., population 7,900; fire area 20 acres; buildings, stone, wood and brick, 2 to 4 stories; wooden roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 5 winter hose reels, 5 summer hose reels; hose, linen (rubber lined) good 3,000 ft, cotton good 1,000 ft, linen good 700 ft, leather good 500 ft; value of fire department equipment \$9,000; value of buildings occupied \$10,000; total ann expenses of department \$2,333; membership 16, paid full time 4, paid part time 12, telephone alarm. Chief, Arthur Ladebeauché.

WATER SUPPLY—Source, Richelieu river; system, direct pumping; pumping engines, dy cap 300,000 gals; 45 hydrants; pipe 12 miles; pressure, domestic 60, fire 120 pounds; waterworks owned by town; cost to construct \$100,000; ann expenses \$4,500. Supt, M. C. Blais.

Terrebonne, Terrebonne Co., population 2,050; mercantile buildings, wood and brick, 2 stories; private, wood, 1 story; wooden roofs permitted; no fireworks ordinance. Fire department—1 chemical engine on wheels, 1 hook and ladder truck, 3 hose carriages, all kinds, 1 hose wagon; hose, rubber good 2,000 ft, cotton good 900 ft, linen good 1,000 ft; 1 horse, value \$150; value of fire department equipment \$3,000; total ann expenses of department \$500; total membership 8, paid full time. Chief engineer, F. A. Gascon.

WATER SUPPLY—Source, springs; system, gravity; pipe 10 miles, 1½ to 3½ in dia; quality of water good; cost to construct \$15,000; ann expenses \$300. Supt, Welfried Contant.*

Three Rivers, St. Maurice Co., population 8,500; fire area 18 miles; mercantile buildings, brick, 1 to 4 stories; private, brick, stone and wood, 1 to 4 stories; fireworks ordinance; causes

of fire investigated. Fire department—8 chemical extinguishers, 1 hook and ladder truck, 3 hose carriages, 3 hose wagons; hose, cotton rubber lined 1,800 ft, rubber good 800 ft, leather 1,000 ft, linen good 1,000 ft; 4 horses; value of fire department equipment \$9,000; value 4 buildings occupied \$10,500; total ann expenses of department \$4,500; total membership 9, paid full time; telegraph alarm; 12 street boxes. Chief, O. Z. Hamel.*

WATER SUPPLY—Source, St. Maurice river; system, direct pumping; pumping engines, dy cap 1,000,000 gals; 61 hydrants; pipe 16 miles, 9 to 4 in dia; 43 valves; 6 meters; pressure, domestic 50 to 70, fire 150 to 140 pounds; waterworks owned by city; cost to construct to date \$43,000; ann expenses \$5,500. Supt, O. Z. Hamel.*

Valleyfield, Beauharnois Co., population 5,619. Fire department—1 steam fire engine, 2 hose carriages, all kinds; hose, rubber good 500 ft, leather good 500 ft, linen good 1,500 ft; 1 horse, value \$150; value of buildings occupied \$5,000; total ann expenses of department \$419.79; total membership 15, paid full time 3, paid part time 12; bell and telephone alarm. Chief engineer, Francois Miron.

WATER SUPPLY—Source, St. Lawrence river; system, direct pumping; 2 waterpower pumps, dy cap 1,200,000 gals; 65 hydrants; pipe 7 miles, 4 to 10 in dia; 75 valves; 1 meter; pressure, domestic 40, fire 100 pounds; waterworks owned by city; cost to construct \$83,300; ann expenses \$1,158. Supt, Emmanuel May.*

Vaudreuil, Vaudreuil Co., population 1,000; buildings, wood, 1½ stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage, ladders; hose, cotton good 100 ft, leather good 75 ft; bell alarm.

WATER SUPPLY—Source, wells; system, direct; 1 reservoir; 4 hydrants.

Waterloo, Shefford Co., population 3,000; mercantile buildings, brick and stone, 2 and 3 stories; private, brick and wood, 1 to 3 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hook and ladder truck, 3 hose carriages, all kinds; hose, cotton good 1,500 ft; value of fire department equipment and buildings \$5,000; total membership 35, volunteer members; bell alarm. Marshal, A. E. Allen.

WATER SUPPLY—Source, waterworks; hydrants 25; pressure 80 pounds.

*Report of 1893.

SUPPLEMENTAL.

The following statistics were received subsequent to the printing in the foregoing pages of the reports from the states referred to:

ALABAMA.

Union Springs, Bullock Co., population 2,500; fire area 900 acres; mercantile buildings, brick, 1 story; private, wood, 1 story; wooden roofs not permitted; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 2 hose carriages; hose, rubber good 500 ft. inferior 1,000 ft. cotton good 750 ft; value of fire department equipment \$5,000; value of buildings occupied \$4,000; total membership 150, volunteer; bell alarm. Chief engineer, B. F. Eley.

WATER SUPPLY—Source, wells. Works will be completed this year.

ARKANSAS.

Hogers, Benton Co., population 3,000; fire area 27 blocks; mercantile buildings, brick and stone, 2 and 3 stories; private, wood, 2 and 3 stories; wooden roofs not permitted; fireworks ordinance. Fire department—2 hose carriages; hose, cotton good 550 ft. inferior 50 ft; value of fire department equipment \$875; value of buildings occupied \$1,500; total membership 25, volunteer; bell alarm; total no. of fire companies 1. Chief, J. A. L. Blackburn.

CALIFORNIA.

Merced, Merced Co., population 2,500; fire area 100 acres; mercantile buildings, brick and iron, 1 and 2 stories; private, wood, 1 and 2 stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—1 steam fire engine, 1 hand engine, 1 hook and ladder truck, 2 hose carriages; hose, cotton 650 ft. rubber good 500 ft; value of fire department equipment \$10,500; value of buildings occupied \$4,500; total ann expenses of department \$250; total membership 30, volunteers; bell alarm. Chief engineer, F. J. Lagomaisino.

Willows, Colusa Co., population 2,000; fire area 160 acres; mercantile buildings, wood, 1 and 2 stories; private, wood, 1 story; wooden roofs permitted; fireworks ordinance. Fire department—2 hose carriages, all kinds; hose, cotton good 1,100 ft; value of fire department equipment \$750; total membership 42; volunteer members; bell alarm. Chief engineer, H. Bielar.

CONNECTICUT.

Meriden, New Haven Co.

WATER SUPPLY—Source, surface water and springs; system, gravity and pumping to reservoir; 2 reservoirs cap 550,000,000 gals; pumping engines, dy cap 5,000,000 gals; 265 hydrants; pipe 40 miles, 4 to 20 in dia; 20 valves; 100 meters; pressure, domestic 15 to 115, fire 115 pounds; waterworks owned by city; cost to construction \$388,000; expenses of construction to \$600,000; ann expenses \$10,000. Supt, Geo. W. Miller.

FLORIDA.

Fernandina, Nassau Co., population 4,000; fire area 20 acres; mercantile buildings, brick, 2 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 5 hose carriages, all kinds, 2 hose wagons; hose, cotton good 2,000 ft. inferior 500 ft; value of fire department equipment \$3,000; value of buildings occupied \$3,000; total ann expenses of department \$2,500; total membership 100, paid full time 2, rest volunteers; whistle and telephone alarm; 1 hook and ladder company, 2 hose companies. Chief engineer, J. Fred Lohman.

ILLINOIS.

Centralia, Marion Co.

WATER SUPPLY—Source, creek; system, pumping direct; pumping engines, dy cap 2,000,000 gals; hydrants 65; pipe 10 miles, 10 to 6 in; valves 25; pressure 160 pounds; waterworks owned by city; original cost to construct \$40,000.

INDIANA.

La Porte, La Porte Co., population about 9,000; fire area 2,000 acres; mercantile buildings, brick, 3 stories; private, wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire

department—1 hook and ladder truck, 5 hose carriages, all kinds; hose, rubber good 2,200 ft. inferior 1,000 ft, cotton good 500 ft. inferior 250 ft; 3 horses, value \$300; value of fire department equipment \$9,000; value of buildings occupied \$3,000; total ann expenses of department \$2,500; total membership 150, volunteers; electric alarm; 15 street boxes. Chief engineer, T. A. Whorwell.

WATER SUPPLY—Source, lake; system, pumping direct; pumping engines, dy cap 4,500,000 gals; hydrants 180; pipe 25 miles, 4 to 12 in; taps 1,500; valves 60; meters 7; pressure, domestic 30, fire 110 pounds; waterworks owned by city; original cost to construct \$150,000; expenses of construction to date \$250,000; ann expenses \$3,000. Supt, Geo. H. Stony.

Fert Wayne, Allen Co., population 45,000; mercantile buildings, brick and stone, 3 to 5 stories; private, brick and wood, 2 stories; wooden roofs not permitted; fireworks ordinance. Fire department—5 steam fire engines, 1 chemical engine on wheels, 2 chemical extinguishers, 1 hook and ladder truck, 1 aerial truck, 1 hose carriage, 5 hose wagons; hose, cotton good 8,500 ft. poor 600 ft; 32 horses, value \$4,000; value of fire department equipment \$49,500; value of buildings occupied \$37,000; total ann expenses of department \$37,000; total membership 42, paid full time; Gamewell electric bell alarm; 57 street boxes. Chief engineer, Henry Hilbrecht.

KENTUCKY.

Danville, Boyle Co.

WATER SUPPLY—Source, Dix river; system, pumping to standpipe; standpipe cap 200,000 gals; pumping engines, dy cap 2,000,000 gals; hydrants 84; pipe about 11 miles, 12 to 6 in; pressure 70 pounds; waterworks owned by city; original cost to construct estimated \$70,000. Supt, E. W. Smith. (Above works are being constructed.)

Lebanon, Marion Co., population 3,500; fire area 3 sq miles; mercantile buildings, brick and stone, 2 and 3 stories; private, wood and brick, 2 and 3 stories; wooden roofs not permitted in business section; fireworks ordinance. Fire department—1 hook and ladder truck, 2 hose carriages; hose, rubber good 1,000 ft; value of fire department equipment \$2,500; value of buildings occupied \$3,000; total ann expenses of department \$250; total membership 8, paid part time; bell alarm. Chief engineer, C. R. Caskey.

Louisville, Jefferson Co., population 185,000; fire area 18½ sq miles; mercantile buildings, iron, brick and stone, 3 to 8 stories; private, stone, brick and wood, 1 to 3 stories; wooden roofs permitted; no fireworks ordinance. Fire department—14 steam fire engines, 10 chemical extinguishers, 5 hook and ladder trucks, 1 aerial truck, 14 hose carriages, all kinds, 1 water tower, salvage corps with 3 extinguishers and 2 wagons; hose, rubber good 21,500 ft, cotton good 2,000 ft. inferior 500 ft; 70 horses, value \$200 each; value of fire department equipment \$175,000; value of buildings occupied \$300,000; total ann expenses of department \$215,000; total membership 150, paid full time; electric alarm; street boxes 240. Chief engineer, Edward Hughes.

WATER SUPPLY—Source, Ohio river; system, pumping to reservoir, standpipes and direct; reservoirs, cap 110,000,000 gals; pumping engines, dy cap 32,000,000 gals; hydrants 159; 585 fire cisterns; pipe 183 miles, 3 to 48 in; taps 16,300; valves 3,080; pressure 50 pounds; waterworks owned by company; cost to construct \$4,500,000; ann expenses \$75,000. Supt, Chas. Hermany.

MAINE.

Lewiston, Androscoggin Co.

WATER SUPPLY—Source, river; system, pumping to reservoir; cap 15,000,000 gals; pumping engines, dy cap 6,000,000 gals; 160 hydrants; 216 private fire hydrants; pipe 29 2-3 miles, 4 to 24 in dia; meters 70; 212 valves; 2,315 taps; pressure 60 to 110 pounds; works owned by city; cost of works to construct \$550,000, to date \$590,000; ann expenses \$2,750. Supt, J. L. Kenney.

NEW YORK.

Albany, Albany Co., corrections to June 15th 1894; 9 hose carriages, all kinds (2 in reserve), 1 hose wagon; 19,000 ft cotton hose good; 43 horses; value of buildings occupied \$163,000; expenses for past year \$113,989. Clerk of dept, Lewis J. Miller.

Friendship, Allegany Co., population 1,369; fire area 1½ miles sq; buildings, wood and brick, 2 and 3 stories; metal roofs permitted; no fireworks ordinance. Fire department—1 steam fire engine, 1 hook and ladder truck, 2 aerial trucks, 2 hose carriages, 1 supply cart, siamese couplings used; hose, cotton good 1,464 ft; value of fire department equipment \$10,000; value of buildings occupied \$5,000; expenses of department \$500; 76 volunteer members; bell and whistle alarm. Chief elected by company, T. J. Rose.

WATER SUPPLY—Source, 4 cisterns, dy cap 2,200 gals. #

Hamlin, Onondaga Co., population 1,000; fire area 500 acres; buildings, wood and brick, 2 and 3 stories; wooden roofs permitted; fireworks ordinance; causes of fire investigated. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; hose, cotton good 200 ft, rubber good 400 ft, leather good 200 ft; value of fire department equipment \$2,500; value of buildings occupied \$1,500; total ann expenses of department \$200; total membership 50, volunteers; triangle alarm; 1 engine company, 1 hook and ladder company, 1 hose company. Chief engineer, Charles Tuttle.

Sayville, Suffolk Co., population 2,700; fire area 3,200 acres; mercantile buildings, wood, 2 and 3 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—2 hook and ladder trucks, 3 hose carts, 1 hose wagon; hose, cotton good 1,800 ft; value of

fire department equipment \$1,520; value of buildings occupied \$3,000; 115 volunteers members; bell alarm. Foreman hose co., G. A. Robinson.

WATER SUPPLY—Source, wells. (See Islip.)

Williamsbridge, Westchester Co., population 3,000; mercantile buildings, wood, 2 stories; private, wood, 2 stories; wooden roofs permitted; fireworks ordinance. Fire department—1 hand engine, 1 hook and ladder truck, 1 hose carriage; 1 jumper; hose, linen good 2,000 ft, inferior 100 ft; value of fire department equipment \$2,550; total membership 120, volunteers; electric alarm. 3 street boxes. Chief engineer, Peter Schwenkert.

WATER SUPPLY—Source, water company.

OREGON.

Roseburg, Douglas Co., population bet 2,500 and 3,000; fire area 160 acres; mercantile buildings, brick, 1 and 2 stories; private, wood, 1 and 1½ stories; wooden roofs not permitted in fire limits; fireworks ordinance. Fire department—2 chemical extinguishers, 1 hook and ladder truck, 2 hose carriages, 1 cart carrying hose and etc., hose, rubber good 1,400 ft, poor 250 ft; value of fire department equipment \$2,400; value of buildings occupied \$9,000; total ann expenses of department \$250; total membership 60, volunteers. Chief engineer, L. A. Sanctuary.

Oabot, Washington Co., population 1,200; fire area 20 acres; mercantile buildings, wood, 3 and 4 stories; private, wood, 2 stories; wooden roofs permitted. Fire department—1 hand engine, 1 hose carriage; hose, cotton good 200 ft; value of fire department equipment \$400; value of buildings occupied \$300; total ann expenses of department \$75; total membership 30. Chief, L. Myers.

WATER SUPPLY—Source, 4 small reservoirs, supplied by stream.

* Report of 1893.

THE BOOK OF LLOYDS

AND

RECIPROCAL UNDERWRITERS.

THE SPECTATOR COMPANY has just issued an important publication, giving information regarding the

LLOYDS FIRE AND MARINE UNDERWRITERS.

Insurance upon the Lloyds plan is comparatively new in this country, but since it first came into vogue the number of Lloyds has increased until there are now over forty Associations of the kind doing a general fire or marine insurance business.

The law of the State of New York especially exempts all Lloyds from reporting to the Insurance Department, and hence no official record is made of their financial standing. It is to supply this deficiency that THE BOOK OF LLOYDS has been prepared. It contains information regarding over forty Lloyds Associations of a character to enable

PROPERTY OWNERS AND INSURERS

to judge as to their trustworthiness. This information includes :

- Name and location of each Lloyd.
- Names of their Attorneys.
- Names of their Subscribers (or Underwriters).
- Liability Limitation Clauses of Policies.
- Amount of Original Subscription of Subscribers.
- Amount of Additional Liability of Subscribers.
- Maximum Amount written on one Risk.
- Total Assets.

A carefully compiled table shows part of this information in comparative form. As no legal standard of solvency is required of Lloyds Associations, the degree of confidence to be placed in any one of them must be determined by the character of its subscribers and of the attorneys representing them, together with the amount of its available assets. It is the purpose of THE BOOK OF LLOYDS to give such information regarding each Association as will enable insurers to form opinions as to the value of the policies issued by them.

In compiling this information, the Attorneys of Lloyds have, with scarcely an exception, expressed entire willingness to make public all material facts regarding their Associations, and the matter herein given is mainly derived from such official sources. As the Lloyds plan of insurance has already

BECOME AN IMPORTANT FACTOR

in the business of fire insurance, it is believed that this little book will be of great service to the insuring public. It makes over 100 pages, is handsomely printed on a fine quality of paper, and is bound in flexible leather covers suitable for pocket or desk use.

Sent postpaid to any address on receipt of price, \$1.00 per copy.

ADDRESS,

THE SPECTATOR COMPANY,

95 William Street, New York.

Liverpool & London & Globe

INSURANCE COMPANY.

ESTABLISHED 1836.

ENTERED U. S. 1848.

Statement of United States Branch, January 1st, 1894.

ASSETS.

Real Estate	\$1,603,270.00
Loans on Bond and Mortgage in New York City	3,039,371.14
Loans on Bond and Mortgage outside New York City	39,957.50
U. S. Government 4½ Bonds	1,779,750.00
State and City Bonds	265,550.00
Cash in Banks	831,139.89
Premiums in course of collection	963,864.76
Other admitted Assets	75,367.99
	\$8,598,271.28

LIABILITIES.

Unearned Premiums	\$4,153,628.69
Unadjusted Losses	740,517.05
Perpetual Policy Liability	329,622.03
All other Liabilities	347,978.72
Surplus	\$3,026,524.79

\$8,598,271.28

Total Fire Losses Paid in the United States, exceed \$60,000,000.00.

New York Board:

CHARLES H. MARSHALL, CHAIRMAN.
JOHN A. STEWART.
JAMES E. PULSFORD.
JOHN CROSBY BROWN.
EDMUND D. RANDOLPH.

Resident Manager—HENRY W. EATON.

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Deputy Manager—GEO. W. HOYT.

Insurance that Insures.

- A Policy absolutely without Restrictions as to occupation, residence, travel, habits of life or manner of death ;
- A Policy with but One Condition, namely, the payment of premiums ;
- A Policy with a Month's Grace in premium payments and paid in full in case of death during the month of grace, less only the overdue premium with interest ;
- A Policy providing for Re-instatement within six months after lapse, if the insured is in good health ;
- A Policy AUTOMATICALLY non-forfeiting after three annual premiums have been paid, either extended insurance or a paid-up policy being given, the first without request, the second on request within six months ;
- A Policy with Privilege of Cash Loans at 5 per cent interest, at stated times five years after issue ;
- A Policy with Six Options in settlement at the end of 10, 15 or 20 years ;
- A Policy incontestable from any cause One Year after issue ;

THAT'S THE

"ACCUMULATION POLICY"

OF THE

New York Life Insurance Company.

JOHN A. McCALL, President.

346 and 348 BROADWAY, NEW YORK.

AGENTS OF INTEGRITY AND ABILITY WANTED EVERYWHERE

Home Insurance Company of New York.

Office: No. 119 Broadway.

EIGHTY-FIRST SEMI-ANNUAL STATEMENT.

JANUARY, 1894.

CAPITAL STOCK, - - - - - \$3,000,000.00

THE ASSETS OF THE COMPANY ARE AS FOLLOWS:

Cash in Banks.....	\$397,341.31
Cash in hands of Agents and in course of collection.....	687,668.06
Real Estate.....	1,566,468.90
Loans on Stocks.....	103,400.00
Loans on Bonds and Mortgages.....	615,568.83
Interest due and accrued.....	50,083.92

BONDS.

	Per Value.	Market Value.
United States Currency.....	6 per cent. \$275,000.00	\$306,625.00
District of Columbia of 1894.....	8-05 1,000,000.00	1,130,000.00
State of Georgia (Registered).....	8 1/2 25,000.00	26,625.00
State of Mississippi.....	4 20,000.00	20,000.00
New York City.....	3 506,000.00	512,875.00
Topeka City, Kas., Internal Improvement.....	6 126,881.88	141,254.64
City of Richmond, Va.....	6 50,000.00	55,000.00
West Chicago Park Commissioners Spl. Assessment Warrants.....	6 81,648.50	81,648.50
City of Greeley, Col., Water.....	6 25,000.00	25,750.00
City of Council Bluffs, Iowa, City Improvement.....	6 20,100.00	20,708.00
Nebraska City, Neb., Paving District.....	7 19,000.00	20,820.00
City of Atchison, Kas., Internal Improvement.....	7 5,000.00	5,350.00
Kansas City, Kas., Improvement.....	7 8,000.00	8,240.00
N. Y. Lake Erie & Western R. R. Co., Re-organized First Lien.....	6 200,000.00	200,000.00
N. Y. Chicago & St. Louis R. R. Co., First Mortgage.....	4 112,000.00	109,300.00
Albermarle & Chesapeake Canal Co., First Mortgage (1909).....	4 110,000.00	121,000.00
Jeffersonville, Madison and Indianapolis R. R. Co. 1st Mortgage (S. F.) (1906).....	7 104,000.00	130,640.00
N. Y. Central & Hudson R. R. First Mortgage Registered (1908).....	7 100,000.00	125,000.00
N. Y. & Harlem R. R. First Mortgage Registered (1900).....	7 100,000.00	117,125.00
Valley Railway Co. of Ohio Consolidated Mortgage Gold.....	6 100,000.00	85,000.00
Ohio & West Virginia Railway Co. First Mortgage (1914).....	7 100,000.00	115,000.00
Peoria, Decatur & Evansville Railway Co. 1st Mtge. (Evansville Div.) (1920).....	6 100,000.00	75,000.00
Cleveland, Columbus, Cincinnati & Indianapolis R.R. (1st Con. Mtge.) (1914).....	7 100,000.00	120,800.00
Louisville, New Albany and Chicago Ry. Co., First Mortgage (1910).....	6 100,000.00	108,000.00
West Shore Railway, First Mortgage Guaranteed (Registered).....	4 100,000.00	101,875.00
Toledo, Ann Arbor & Grand Trunk R. Co., First Mortgage (1921).....	6 100,000.00	90,000.00
Toledo, Ann Arbor & Cadillac Ry. Co., First Mortgage Guaranteed (1917).....	6 100,000.00	80,000.00
Dunkirk, Warren & Pittsburgh Ry. Co., First Mortgage Guaranteed (1900).....	6 75,000.00	87,000.00
Chicago, St. Paul, Minneapolis and Omaha Ry. Co., Consol'd Mortgage (1900).....	6 50,000.00	60,750.00
Alabama Central Railroad, First Mortgage.....	6 50,000.00	50,800.00
Savannah & Western, First Consolidated Mortgage Guaranteed.....	5 50,000.00	17,000.00
Virginia Midland Railway Co., Gen'l Mortgage Guaranteed Stamped (1906).....	5 50,000.00	36,000.00
Louisville, St. Louis & Texas Railway Co., First Mortgage (1917).....	6 50,000.00	32,800.00
Standard Gas Light Company, First Mortgage (1901).....	5 50,000.00	45,000.00
Des Moines Water Works Co. of Iowa, First Consolidated Mtge. (1900).....	6 50,000.00	51,800.00
Denver Water Company, First Mortgage.....	7 25,000.00	25,000.00
Streator Ill., Aqueduct Co., First Mortgage.....	6 10,000.00	10,000.00
Railway, Bank, Trust Company and other stocks.....	1,019,500.00	1,179,187.80
Total Assets.....		\$9,008,533.63

LIABILITIES.

Cash Capital.....	\$3,000,000.00
Reserve Premium Fund.....	4,558,920.00
Unpaid Losses.....	710,439.80
Unpaid Re-Insurance and Commission on Uncollected Premiums.....	184,149.08
Net Surplus.....	560,894.97
	\$9,008,533.63

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New York, January 9, 1894.

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PHOENIX

ASSURANCE COMPANY

OF LONDON.

ESTABLISHED, - - - - - 1782.

FIRE INSURANCE ONLY.

LOSSES PAID, OVER - - - - \$100,000,000

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SURETY ON BONDS.

AMERICAN SURETY COMPANY

OF NEW YORK.

160 Broadway, New York.

CAPITAL, - - - - \$2,000,000.

W. L. TRENHOLM, President. HENRY D. LYMAN, Vice-President.

STATEMENT, DECEMBER 30, 1893.

BONDSMEN SUPERSEDED.

RESOURCES (Including Capital, \$2,000,000),

\$3,368,883.59

LIABILITIES (Including Reserve, \$388,416.06)

\$57,363.63

Bonds guaranteeing the honesty of Officers and Employees of Banks, Railway, Express, Telegraph and Telephone Companies, other Corporations and Business Houses.

This Company will act as surety on Bonds required in the Courts.

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Geo. L. SEYBOLT, Agent and Inspector,	- - - - -	381 Pine Street, San Francisco

ESTABLISHED A. D. 1797.

NORWICH UNION

FIRE INSURANCE SOCIETY,

NORWICH, ENGLAND.

FIRE INSURANCE EXCLUSIVELY.

UNITED STATES TRUSTEES.

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Head Office for the United States, Nos. 59 and 61 Wall Street, New York.

J. MONTGOMERY HARE, - - - RESIDENT MANAGER.

INCORPORATED 1851.

THE BERKSHIRE LIFE INSURANCE COMPANY OF PITTSFIELD, MASS.

REASONS WHY IT SHOULD BE PREFERRED BY THOSE DESIRING INSURANCE.

It has the benefit of over forty-three years successful experience.

Its business is conducted on the Mutual plan, thus enabling members to get their insurance at cost.

It has always paid large dividends, thereby making the cost of insurance low.

It maintains a reserve for the protection of policyholders, on the Massachusetts standard, the highest basis required by the laws of any State.

It has a large surplus over the legal reserve and all other liabilities.

Its conditions as to travel and residence are very liberal.

Its policies are protected by the non-forfeiture laws of the Commonwealth of Massachusetts, which secure greater benefits to members than those of any other State.

It has always maintained a high reputation for just and liberal treatment of its members by promptly adjusting and settling all policy claims, a proof of which is the fact that no judgment has ever been rendered against it.

WILLIAM R. PLUNKETT, President.

JAMES M. BARKER, Vice-President.

JAMES W. HULL, Secretary and Treasurer.

AGENTS IN ALL THE PRINCIPAL CITIES AND TOWNS.

ESTABLISHED 1850.

NATIONAL LIFE INSURANCE COMPANY OF MONTPELIER, VERMONT.

ASSETS, - - - - - Over \$10,000,000.00.

CHARLES DEWEY, President.
GEO. W. REED, Secretary.
O. D. CLARK, Assistant Secretary.
JOSEPH A. DE BOER, Actuary.

EDWARD DEWEY, Vice-President.
J. C. HOUGHTON, Treasurer.
H. M. CUTLER, Assistant Treasurer.
A. B. BISBEE, M.D., Medical Director.

BRANCH

NEW YORK, 150 Broadway, J. F. MAKLEY, Manager.
BOSTON, 159 Devonshire Street, JAMES T. PHELPS, Manager.
PHILADELPHIA, 435 Chestnut Street, FRANK READ, Manager.
CHICAGO, 84-86 La Salle Street, HILLS & DRAKE, Managers.
CLEVELAND, 86 Superior Street, OLMSTED BROS., Managers.
DETROIT, Hammond Building, McC. C. LE BEAU, Manager.
ALBANY, N. Y., 86 State Street, M. H. MULLENNEAUX, Manager.
TOPEKA, KAN PIETY & MARTIN, Managers.
BALTIMORE, MD., Merchants' Nat'l Bank Building, M. H. GOODRICH, Manager.
DENVER, COL., 1541 Curtis Street, A. L. ROEDER & CO. Mgrs.
SALT LAKE CITY, G. D. ALDER, Manager.
LOUISVILLE, KY., 500 W. Main Street, CASSEDAY & LANE, Managers.

OFFICES:

NEW HAVEN, 850 Chapel Street, E. E. SILL, Manager.
PROVIDENCE, 302 Westminster Street, A. B. ROWLEY, Manager.
PORTLAND, 35 Exchange Street, GEORGE P. DEWEY, Manager.
PITTSBURGH, Hamilton Building, EDWARD O'NEIL, Manager.
MINNEAPOLIS, 720 Lumber Exchange, WM. H. MURPHY, Manager.
ROCHESTER, N. Y., Elwood Block, FRANK C. MANN & CO., Managers.
SAN FRANCISCO, 82 and 84 New Crocker Building, G. M. STOLP, Manager.
OMAHA, Paxton Building, M. L. ROEDER, Manager.
MILWAUKEE, WIS., Mack Block, J. B. ESTEE, Manager.
MANCHESTER, N. H., 913 Elm Street, F. C. MOREY, Manager.
DES MOINES, IOWA, R. P. DART, Manager.
WHEELING, W. VA., City Bank Bldg., J. S. MILLIGAN, Manager.

AND OTHERS.

Phenix Insurance Company

BROOKLYN, N. Y.

CASH CAPITAL, \$1,000,000.

Gross Assets, December 31, 1893,	-	-	-	\$5,697,450.59
Liabilities,	-	-	-	4,536,013.85
Surplus as to Policyholders,	-	-	-	\$1,161,436.74

Losses Paid since Organization, \$47,411,406.59.

North British and Mercantile INSURANCE COMPANY OF LONDON AND EDINBURGH

United States Branch, - 54 William Street, New York.

NEW YORK BOARD OF MANAGEMENT.

SOLON HUMPHREYS, Esq. (E. D. Morgan & Co.), Chairman.

H. W. BARNES, Esq.

JACOB WENDELL, Esq. (Jacob Wendell & Co.)

CHAS. H. COSTER, Esq. (Drexel, Morgan & Co.

CHAS. EZRA WHITE, Esq.

DAVID DOWS, JR., Esq.

HON. WM. WALDORF ASTOR.

H. E. BOWERS, MANAGER.

SUN INSURANCE OFFICE

OF LONDON.

Founded - - A. D. 1710.

UNITED STATES BRANCH, 54 PINE STREET, N. Y.

J. J. GUILLE, Manager.

J. J. PURCELL, Secretary.

UNITED STATES TRUSTEES.

WILLIAM LIBBEY.

HENRY M. ALEXANDER.

JOHN J. MCCOOK.

NIAGARA

FIRE INSURANCE COMPANY

OF NEW YORK.

135 AND 137 BROADWAY.

THOS. F. GOODRICH,
President.

HAROLD HERRICK,
Vice-President.

GEORGE C. HOWE,
Secretary.

CALEDONIAN

INSURANCE CO. OF SCOTLAND.

ORGANIZED 1805.

OLDEST SCOTTISH INS. INSTITUTION.

United States Head Office,
27 and 29 PINE STREET.

Metropolitan District Offices,
30 PINE STREET.

CHARLES H. POST, U. S. MANAGER.

THE
MASSACHUSETTS MUTUAL
LIFE
INSURANCE COMPANY,
SPRINGFIELD, MASS.

PURELY MUTUAL. NO STOCKHOLDERS.
CONSERVATIVE, YET PROGRESSIVE.

INCORPORATED 1851.

Assets	\$14,480,480.80
Liabilities	13,228,341.00
Surplus (Massachusetts Standard).....	1,020,316.96
Number of Policies issued in 1893, 7,356 ; insuring	19,481.200.00
Number of Policies in force Jan. 1, 1894, 31,366 ; insuring.....	83,760,969.00

All approved forms of policies are issued, and are protected by the Non-forfeiture Law of Massachusetts, which applies only to Companies chartered by the Commonwealth of Massachusetts.

The paid-up and cash values determined by this law are written in each policy issued by the Company.

M. V. B. EDGERLY, PPESIDENT. HENRY S. LEE, VICE-PRESIDENT.
JOHN A. HALL, SECRETARY. E. D. CAPRON, ASSISTANT SECRETARY.
OSCAR B. IRELAND, ACTUARY.

INCORPORATED 1844.

STATE MUTUAL LIFE ASSURANCE COMPANY OF WORCESTER, MASS.

Assets, January 1, 1894, \$8,888,870.17

Liabilities, January 1, 1894, 7,826,230.65

Surplus January 1, 1894, Massachusetts Standard, \$1,062,639.52

A. G. BULLOCK, President and Treasurer.

H. M. WITTER, Secretary.

Rochester German Ins. Co.

ROCHESTER, N. Y.

January 1st, 1894.

CASH CAPITAL.....	\$200,000.00
Unearned Premium Reserve.....	415,801.68
Reserve for Unpaid Losses and other Liabilities.....	85,884.11
Net Surplus.....	205,173.19
Gross Assets.....	905,868.98

COMPARATIVE STATEMENT of the increase in Assets and Surplus, also of the Net Premiums received and losses paid since Organization.

YEAR.	Assets.	Net Surplus.	Net Premiums Received.	Losses Paid.	YEAR.	Assets.	Net Surplus.	Net Premiums Received.	Losses Paid
1873.....	\$120,425	\$19,325	\$31,847	\$1,580	1883.....	\$575,088	\$125,319	\$225,624	\$102,327
1873.....	165,359	27,557	73,744	15,944	1884.....	637,143	127,564	451,172	243,143
1874.....	314,331	33,348	153,161	57,197	1885.....	649,986	141,181	439,665	299,392
1875.....	344,496	47,407	176,963	102,960	1886.....	668,461	173,685	360,065	239,649
1876.....	367,184	57,086	204,655	119,173	1887.....	673,144	164,136	378,963	245,316
1877.....	399,108	70,856	171,971	106,901	1888.....	712,836	309,080	364,236	216,344
1878.....	409,630	115,547	161,146	73,892	1889.....	751,355	318,580	389,961	225,400
1879.....	437,365	120,073	207,362	110,378	1890.....	815,396	338,638	438,713	236,047
1880.....	468,938	123,509	235,551	133,327	1891.....	894,534	390,864	438,677	220,345
1881.....	493,786	135,445	261,996	170,356	1892.....	963,137	340,839	570,673	238,368
1882.....	504,512	124,097	281,568	184,385	1893.....	905,930	305,173	580,940	272,635

FREDERICK COOK, President.
H. F. ATWOOD, Secretary.FREDERICK GOETZMANN, Vice-President.
J. F. CAMP, Assistant Secretary.

O. C. KEMP, General Agent Western Department.

The Connecticut Mutual

LIFE INSURANCE COMPANY.

ASSETS, \$61,363,404.61.

SURPLUS, \$6,448,027.87.

Its members are its advocates and friends, and justly so, as they note the constant care of their interests, the steady increase in assets and surplus, the small expense ratios, the decreasing annual cost of their insurances, and the prompt payment of every lawful claim. The company is purely mutual in its organization and control; its contracts are carried at the lowest practicable cost; and, with assets of \$61,363,404, and a clear surplus, by the company's voluntarily assumed and extra high standard of solvency, of \$6,448,027 behind them, they are absolutely certain of fulfillment.

JACOB L. GREENE, President.

JOHN M. TAYLOR, Vice-President.

EDWARD M. BUNCE, Secretary.

DANIEL H. WELLS, Actuary.

1794.

Eighty-Third Annual Statement

1894.

OF THE
HARTFORD
FIRE INSURANCE COMPANY
 OF
HARTFORD, CONN.

Total Assets, - - \$7,378,092.03.

Cash Capital.....	\$1,250,000.00
Reserve for Reinsurance (legal standard).....	3,169,624.75
Outstanding Claims and other Liabilities.....	661,697.31
Policyholders' Surplus.....	3,546,769.97
Net Surplus over Capital and all Liabilities.....	2,296,769.97

GEORGE L. CHASE, President.

P. C. ROYCE, Secretary.

THOS. TURNBULL, Ass't Secretary.

CHARLES E. CHASE, Ass't Secretary.

AGENCIES IN ALL PROMINENT LOCALITIES THROUGHOUT THE UNITED STATES AND CANADA.

THE BEST OPPORTUNITIES FOR AGENTS

ARE NOW OFFERED BY THE

Aetna Life Insurance Company.

ASSETS, \$40,267,952.90.

The Aetna is the largest company in the world granting all desirable kinds of Life, Endowment, Renewable-Term and Accident Insurance. Many of these plans are new and have exceedingly attractive features.

For Agencies or Information address the Company, at Hartford, Conn.

"MORAL: INSURE IN THE TRAVELERS."

ORIGINAL ACCIDENT COMPANY OF AMERICA, LARGEST
IN THE WORLD; ALSO, BEST OF LIFE COMPANIES.

RATES AS LOW AS CONSISTENT WITH SAFETY.

Assets, \$16,000,000.

Surplus, \$2,200,000.

ACCIDENT POLICIES

Only \$4 per year to Professional and Business Men, for each \$1000, with \$5 Weekly Indemnity. Not Forfeited by change of occupation, but paid *pro rata*.

ACCIDENT TICKETS

25 cents per day, \$4.50 for 80 days; for sale at all local agencies and leading Railroad Stations.

BEST LIFE POLICY

in the market. Indefeasible, Non-Forfeitable, World Wide.

Employers' Liability at Lowest Rates.

PAID POLICYHOLDERS \$24,500,000.

PAYS ALL CLAIMS IMMEDIATELY UPON RECEIPT OF SATISFACTORY PROOFS

JAMES G. BATTERSON, President.
RODNEY DENNIS, Secretary. JOHN E. MORRIS, Asst. Sec'y.

ORGANIZED IN 1851.

THE

PHOENIX MUTUAL

Life Insurance Company

OF HARTFORD, CONN.

ASSETS, OVER - - - \$10,000,000.00

Total Payments to Policyholders for Death Claims and Matured Endowments, Dividends
and Surrendered and Ceased Policies, over \$34,000,000.

J. B. BUNCE, President.

J. M. HOLCOMBE, Vice-President.

C. H. LAWRENCE, Secretary.

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NATIONAL

Fire Insurance Company

OF HARTFORD, CONN.

STATEMENT, JANUARY 1, 1894.

CAPITAL STOCK, all Cash.....	\$1,000,000.00
Funds reserved to meet all Liabilities : { Reinsurance Reserve, legal standard...\$1,542,127.59 } 1,937,841.91	
Unsettled Losses and other claims..... 395,714.32	
NET SURPLUS over Capital and all Liabilities.....	306,614.07
TOTAL ASSETS, JANUARY 1, 1894.....	\$3,244,455.98

JAMES NICHOLS, President.

E. G. RICHARDS, Secretary.

B. R. STILLMAN, Assistant Secretary.

Western Department.

FRED. S. JAMES, General Agent.

GEO. W. BLOSSOM, Ass't Gen'l Agent.

CHAS. RICHARDSON, 2d Ass't Gen'l Agt.

OFFICE, 174 LA SALLE STREET, CHICAGO.

Pacific Department.

GEO. D. DORNIN, Manager.

GEO. W. DORNIN, Assistant Manager.

OFFICE, 400 CALIFORNIA STREET, SAN FRANCISCO.

THE



MUTUAL

LIFE INSURANCE COMPANY

OF BOSTON, MASS.

Offers to the public all desirable forms of legitimate life insurance, in strict conformity to the conservative requirements of the Statutes of Massachusetts.

STEPHEN H. RHODES, President.

ROLAND O. LAMB, Secretary.

HENRY T. CULVER, Supt. of Agents.

THE

GRANITE STATE

Fire Insurance Company,

PORTSMOUTH, N. H.

STATEMENT.

Cash Capital.....	\$200,000
Total Assets.....	577,178
Net Surplus.....	44,604
Surplus as regards Policyholders.....	244,604

HON. FRANK JONES, President.

HON. JOHN W. SANBORN, Vice-President.

A. F. HOWARD, Secretary.

JUSTIN V. HANSCOM, Treasurer.

NEW ENGLAND MUTUAL

LIFE INSURANCE COMPANY.

Post Office Square, Boston, Mass.

ASSETS, Dec. 31, 1893,	-	-	-	\$23,204,162.58
LIABILITIES,	-	-	-	21,537,527.35
				<u>\$1,666,635.23</u>

LIFE RATE ENDOWMENT policies are issued at the old life rate premium.

ANNUAL CASH distributions are paid upon all policies.

Every policy has indorsed thereon the cash surrender and paid-up insurance values to which the insured is entitled by the Massachusetts Statute.

Pamphlets, rates and values for any age sent on application to the Company's Office.

BENJ. F. STEVENS, President.
ALFRED D. FOSTER, Vice-Pres.

S. F. TRULL, Secretary.
WM. B. TURNER, Asst. Sec.

London Guarantee & Accident Company, Limited,

OF LONDON, ENGLAND.

ORGANIZED 1869.

ASSETS.....	\$1,353,158
SURPLUS TO POLICYHOLDERS.....	\$51,309

Deposited for the Protection of United States Policyholders,

\$200,000 IN U. S. 4% BONDS.

TRUSTEES FOR THE UNITED STATES.

J. CROSBY BROWN, Esq.....	Messrs. Brown, Bros. & Co., Bankers, N. Y.
J. W. DOANE, Esq.....	Pres. Merchants Loan & Trust Co. Bank, Chicago.
GEO. H. WHEELER, Esq.....	Pres. Chicago City Railway Co., Chicago.
ERSKINE M. PHELPS, Esq.....	Messrs. Phelps, Dodge & Palmer Co., Vice-Pres. C. C. R. Co., Chicago.
HON. OLIVER AMES.....	Ex-Governor of Massachusetts, Boston.

HEAD OFFICE FOR THE UNITED STATES:

MANHATTAN BUILDING, 307-321 DEARBORN STREET, CHICAGO.

A. W. MASTERS, GENERAL MANAGER.

Insures Fidelity of Trusts, Employers' Liability, Elevator Liability,
General Liability, Public Liability.

General Accident Policies at Lowest Rates.

INCORPORATED 1799.

PROVIDENCE WASHINGTON

INSURANCE COMPANY

PROVIDENCE, R. I.

Cash Capital,	-	-	\$400,000.00
Assets, January 1, 1894,	-	-	1,217,302.19

OFFICERS.

J. H. DE WOLF, President.
 J. B. BRANCH, Vice-President.
 E. L. WATSON, Secretary.
 GEO. E. BIXBY, Treasurer.

DIRECTORS.

ROWLAND HAZARD,	WM. AMES,	E. PHILIP MASON,
J. H. DE WOLF,	F. W. CARPENTER,	ROYAL C. TAFT,
WM. GROSVENOR,	R. I. GAMMELL,	EUGENE W. MASON,
	JOHN S. PALMER.	

GENERAL AGENTS.

C. L. WHITTEMORE, Chicago, Manager Western Department.
 C. D. DUNLOP, Denver, Manager for Kansas, Colorado, Nebraska, Wyoming, New Mexico and Utah.
 J. H. NORTON, Jacksonville, Fla., General Agent for Florida.
 G. F. ASHTON, San Francisco, General Agent Pacific Coast Department.
 C. E. ANGELL & CO., Galveston, General Agents for Texas.

THE INSURANCE COMPANY OF NORTH AMERICA.

OLDEST

Stock Fire Insurance Company in the United States.

FOUNDED 1792.

Cash Capital,	- - - - -	\$3,000,000.00
Reserve for Reinsurance,	- - - - -	3,844,906.49
Reserve for Unadjusted Losses and all other Liabilities,	- - - - -	721,835.24
Surplus over all Liabilities,	- - - - -	<u>1,865,508.07</u>
Total Assets, January 1, 1894,	- - - - -	\$9,432,249.80

SPECIAL FEATURES OF THIS COMPANY ARE:

SECURITY.

Over Nine Million Four Hundred Thousand Dollars of Assets.

LIBERALITY.

Average Loss Payments exceed Ten Thousand Dollars for every day in the year.

PROMPTNESS.

Losses Adjusted and Paid Without Delay.

PROGRESSIVENESS.

All Desirable Forms of Policies Issued.

Over \$77,000,000 of Losses Paid since Organization.

CHARLES PLATT, WILLIAM A. PLATT, EUGENE L. ELLISON,
President, Vice-President, and Vice-President.

GREVILLE E. FRYER, T. HOUARD WRIGHT, JOHN H. ATWOOD,
Secretary and Treasurer, Marine Secretary, Assistant Secretary

PENN MUTUAL

LIFE INSURANCE COMPANY,

923 AND 925 CHESTNUT STREET, - PHILADELPHIA.

INCORPORATED 1847.

ASSETS, - \$22,773,911.

PURELY MUTUAL

Dividends Made Annually, Reducing the Payments the Second Year. Policies Non-forfeitable and Incontestible.

President.
EDWARD M. NEEDLES.

Vice-President,
HORATIO S. STEPHENS.

Sec'y and Treas'r
HENRY C. BROWN.

Actuary.
JESSE J. BARKER.

JOHN W. HAMER, Mang'r of Loan Dept.

HENRY C. LIPPINCOTT, Mang'r of Agencies.

HENRY H. HALLOWELL, Ass't Sec'y and Treas'r.

J. LEITHMANN, JR., Comptroller.

JNO. J. McCLOY, Supervisor of Applications and Death Claims.

GENERAL AGENTS, NEW YORK, { E. DE FOREST, 13 PARK ROW.
J. A. GOULDEN, 239 BROADWAY.

AMERICAN FIRE

INSURANCE COMPANY,

—OFFICE—

COMPANY'S BUILDING, 308 AND 310 WALNUT STREET. PHILADELPHIA.



CASH CAPITAL, - - - - - \$500,000.00

Reserve for Reinsurance and all other claims.....\$2,106,141.72

Surplus over all Liabilities.....76,973.74

Total Assets, January 1, 1894, - - \$2,683,115.46.

THOS. H. MONTGOMERY, President.

RICHARD MARIS, Sec'y and Treas.

CHAS. P. PEROT, Vice-President.

WM. F. WILLIAMS, Asst. Secy.

WM. J. DAWSON, Secy. Agency Dept.

DIRECTORS.

Thomas H. Montgomery,
Israel Morris,
Pemberton S. Hutchinson,

Alexander Biddle,
Charles P. Perot,
Joseph E. Gillingham,

Charles S. Whelan,
Edward F. Beale,
John S. Gerhard.

Provident Life and Trust Co.

OF PHILADELPHIA,

ISSUES Life, Endowment, and Term Policies, which can be made payable to the beneficiaries in 10, 15, 20, 25 or 30 equal annual installments, or to the company as Trustee under a Deed of Trust.

Its Term Policies are at low rates, participate in annual dividends, are renewable, and are convertible into Life and Endowment Policies.

The PROVIDENT in everything which makes Life Insurance secure, excellent and moderate in cost, is unsurpassed.

A fine opportunity is presented for able, ambitious men to receive a thorough training for the business.

THE PENNSYLVANIA FIRE INSURANCE CO.

OF PHILADELPHIA.

SIXTY-EIGHTH ANNUAL STATEMENT.

JANUARY 1st, 1894.

ASSETS.

Real Estate unencumbered.....	\$184,500.00
Bonds and Mortgages, first liens.....	610,070.00
Loans on Collateral.....	444,800.00
Accrued Interest.....	14,456.80
Cash in Banks, Office and Agents' Hands.....	817,469.76
Railroad and other Bonds and Stocks.....	2,386,362.00
Total Assets.....	\$3,859,058.56

LIABILITIES.

Capital Stock.....	\$400,000.00
Outstanding Claims.....	215,209.59
Reserve for Re-insurance.....	1,068,614.04
Net Surplus.....	\$1,290,174.73

R. DALE BENSON, President.

JOHN L. THOMSON, Vice-President.

W. GARDNER CROWELL, Secretary.

CHAS. W. MERRILL, Asst. Secretary.

PHILADELPHIA FIRE LLOYDS.

R. B. VROOMAN, Attorney. J. G. KIMBALL, Deputy Attorney.

59 FORREST BUILDING,
119 South Fourth Street, - Philadelphia.

SUBSCRIBERS:

J. K. CUMING, President of the Columbia Ave. Savings Fund, Safe Deposit, Title and Trust Co.
R. H. FOERDERER, Leather Manufacturer.
B. J. WOODWARD, Vice-President of the Tenth National Bank.
C. A. FURBUSH, Treasurer of the Southwark Mills Co.
S. B. VROOMAN, Importer and Manufacturer of Mahogany and Cedar Lumber.
J. GIBSON McILVAIN, of J. Gibson McIlvain & Co., Lumber Merchants.
EDWIN F. PARTRIDGE, President American Pipe and Manufacturing Co.
JAMES DOBSON, of John & James Dobson, Carpet Manufacturers.
ELMER D. WILT, of A. Wilt & Sons, Builders' Mill.
WM. C. WILLIAMSON, of Williamson Brothers, Engineers, Machinists and Boiler Makers.
A. H. HULSHIZER, Director Industrial Trust Co.
J. H. W. CHESTNUT, Director American Trust, Loan and Guaranteed Investment Co.
PETER WALL, of Adolph Wall & Sons, Manufacturers Curled Hair and Bristles.

Subject to increase.

The above Subscribers, in their capacity as individual underwriters each, guarantee our policies to the amount underwritten by them through the Attorney.

In addition to the unlimited liability they assume, a CASH DEPOSIT of DOUBLE the maximum line underwritten must always be maintained.

As no profits are to be withdrawn until a large surplus has been accumulated, for the still further protection of policyholders, and as the LEGALITY of our undertaking has been *sustained* by the courts, no better indemnity can be secured than that which our policies afford.

1829.

Charter Perpetual.

1894.

FRANKLIN
FIRE INSURANCE COMPANY
OF PHILADELPHIA.

ASSETS, JANUARY 1, 1894.

Mortgages.....	\$288,411.86
Real Estate.....	291,100.00
Loans on Collaterals.....	280,354.53
Bonds and Stocks.....	2,087,769.25
Cash.....	182,953.85
Total.....	\$3,130,589.49

Capital.....	\$400,000.00
Insurance Reserve.....	1,725,505.49
Unpaid Losses, Dividends, etc.....	51,352.46
Net Surplus.....	953,731.54

Total Assets, January 1, 1894.....\$3,130,589.49

JAS. W. McALLISTER, President.
EZRA T. CRESSON, Secretary.

OFFICERS:

GEORGE F. REGER, Vice-President.
SAMUEL K. REGER, Assistant Secretary.

JAMES W. McALLISTER.
ALFRED FITLER.
GEORGE A. HEYL.

DIRECTORS:

GEO. FALES BAKER, M.D.
JOHN WRIGHT.
CHARLES M. SWAIN.
CHARLES W. POTTS.

JOHN SAILER.
GEORGE F. REGER.
JOSEPH MOORE, JR.

FIFTY-SECOND ANNUAL STATEMENT
OF
THE RELIANCE
INSURANCE COMPANY
OF PHILADELPHIA.

Incorporated April 21st, 1841.

JANUARY 1st, 1894.

Total Assets.....\$819,864.42

LIABILITIES.

Cash Capital.....	\$300,000.00
Reserve for Reinsurance.....	298,685.67
Unpaid Losses and Other Claims.	31,509.39
Net Surplus.....	189,669.36
	\$819,864.42

THOMAS C. HILL, President.

WILLIAM CHUBB, Vice-President.

CHAS. J. WISTER, Jr., Secretary.

Fire Insurance Only.



THE SPRING GARDEN
INSURANCE CO.
PHILADELPHIA.

Assets,	\$1,234,655.83
Reserve for all Liabilities,	687,276.86
Surplus to Policyholders,	\$547,378.97
Losses Paid, . . .	\$3,329,785.21

W. G. WARDEN, President.

CHARLES ROBERTS, Vice-President.

CLARENCE R. PORTER, Secretary.

EDWARD L. GOFF, Asst Secretary.

ORGANIZED 1871.

THE

Life Insurance Company of Virginia,

RICHMOND, VA.

SEVEN YEARS' GROWTH.

PREMIUM INCOME.

1887,	-	-	-	\$99,566.00
1888,	-	-	-	\$127,049.00
1889,	-	-	-	\$151,571.00
1890,	-	-	-	\$234,547.00
1891,	-	-	-	\$395,447.67
1892,	-	-	-	\$475,520.24
1893,	-	-	-	\$546,151.15

Gross Income, 1893, \$587,088.81

G. A. WALKER, - President.

JAS. W. PEGRAM, Secretary.

ALL FORMS OF LIFE, ENDOWMENT, AND INDUSTRIAL INSURANCE.

ORGANIZED 1832.

Virginia Fire and Marine

INSURANCE COMPANY,

RICHMOND.

ASSETS, \$650,000

INSURES AGAINST FIRE AND LIGHTNING.

This old Company issues a very short and comprehensive Policy, free of petty restrictions, and liberal in its terms and conditions.

AGENCIES THROUGHOUT THE STATE.

WM. H. PALMER, President.

W. H. MCCARTHY, Secretary.

S. MCG. FISHER, Ass't Secretary.

ESTABLISHED 1865.

VIRGINIA STATE
INSURANCE Co.
RICHMOND, VIRGINIA.

Office, - 1006 Main Street.

CAPITAL, - - \$200,000.00

OFFICERS.

N. V. RANDOLPH, Pres.

GEO. L. CHRISTIAN, V.-Pres.

RO. E. RICHARDSON, Sec.

BOARD OF DIRECTORS.

W. J. WESTWOOD,
S. H. HAWES,
F. H. MCGUIRE,
JOHN MAHONY,
E. T. D. MYERS,

FRITZ SITTINGDING,
JNO. S. ELLETT,
JOHN POPE,
J. M. FOURQUREAN,
L. D. CRENSHAW, Jr.

CHAS. K. WILLIS, Assistant Secretary.
ROBERT LECKY, Jr., Special Agent.

IOWA
LIFE INSURANCE CO.
SIoux CITY, IOWA.

C. E. MABIE, President.

A. T. PARISH, Supt. of Agents.

Issues all approved forms of Life and Endowment Contracts.

All Policies are secured by a deposit of the Full Reserve with the State of Iowa.

All contracts issued by the Company are incontestable after the second year and non-forfeitable after the third.

Liberal surrender values in paid-up insurance, extended insurance or cash are written in the contracts.

A few good general agents wanted, to take charge of desirable territory.

E. WILKERSON, President.

C. E. PILLING, Secretary.

Covenant Mutual Life Insurance Co.

OF ST. LOUIS.

BOARD OF TRUSTEES.

DAVID R. FRANCIS,
C. P. ELLERBE,
C. C. RAINWATER,
WM. H. THOMPSON,

JAS. BANNERMAN,
A. F. SHAPLEIGH,
GIVEN CAMPBELL,
E. WILKERSON,

OTTO STIFEL,
H. EISENHARDT,
JOSEPH A. DUFFY,
W. H. WOODWARD,

JOS. N. EVANS,
FRANK CARTER,
CHAS. D. MCCLURE,
J. B. GREENSFELDER.

1853—FORTY-ONE YEARS OF SUCCESS.—1894

Reasons why it Should be patronized by the People of the West.

It is a Western Company.

Its deposit with the Missouri Insurance Department is the largest of any Company doing business in the State.

It keeps its funds in the West, puts them back into the channels of Home Circulation, which eventually helps to build up other Western enterprises.

Its business is conducted upon sound, safe and honest principles.

Its Solid Financial Condition. All policies are REGISTERED and SECURED by a deposit with the Missouri Insurance Department.

Its policies are subject to the Missouri Non-forfeiture Law, the most advantageous to the policyholder of any of the laws of any State, except one.

No restrictions as to residence, travel or occupation.

THE FIVE YEAR CUMULATIVE ENDOWMENT POLICY,

recently adopted by this company, combines more advantages and fewer restrictions than policies issued by other companies.

Agents in Missouri, who can and will write Insurance, can build up a remunerative renewal income by working for the Covenant.

FOR FULL INFORMATION AND TERMS ADDRESS THE HOME OFFICE, AS ABOVE.

1859.

THE

1894.

Georgia Home Insurance Company,

COLUMBUS, GA.

Thirty-Fifth Annual Statement, January 1st, 1894.

INCOME.

Gross Premiums received during year 1893.....	\$406,841.08
Deduct Reinsurance and Returned Premiums.....	106,621.22
Leaves Net Premiums.....	\$300,219.86
Received from Interest, Rents, and all other sources.....	48,018.20
Total Income.....	\$348,238.06

EXPENDITURES.

Losses Paid during year 1893, including \$38,791.27 occurring in previous years.....	\$162,413.47
Dividends Paid.....	36,000.00
All other Expenditures, including Agents' Commission and Home Office Expenses.....	97,020.69
Excess of Income.....	52,803.87
	\$348,238.06

ASSETS.

Cash in National Bank.....	\$119,916.54
Cash in Hands of Agents.....	55,781.62
	\$175,698.16
United States Registered Bonds.....	56,500.00
State and Municipal Bonds.....	102,251.20
National Bank Stocks.....	198,000.00
Cotton Manufacturing Stocks.....	171,690.00
Other Local Stocks.....	22,267.50
Real Estate (unencumbered).....	91,700.00
Loans secured by first Mortgages, etc.....	221,574.26
Total Assets.....	\$1,109,621.12

LIABILITIES.

Cash Capital.....	\$300,000.00
Unadjusted Losses.....	81,699.81
Reserved for Reinsurance and all other Liabilities.....	427,908.65
Net Surplus.....	300,017.66
Total Liabilities.....	\$1,109,621.12

J. RHODES BROWN, President.

WM. C. COART, Secretary.

1850.

THE

1894.

UNITED STATES LIFE INSURANCE CO. IN THE CITY OF NEW YORK.

OFFICERS.**GEORGE H. BURFORD, President.****C. P. FRALEIGH, Secretary.****WM. T. STANDEN, Actuary.****A. WHEELWRIGHT, Assistant Secretary.****ARTHUR O. PERRY, Cashier.****JOHN P. MUNN, Medical Director.****FINANCE COMMITTEE.****GEO. G. WILLIAMS, Prest. Chem. Nat. Bank.****JOHN J. TUCKER, Builder.****E. H. PERKINS, Jr., Prest. Importers' and Traders' Nat. Bank.**

The two most popular plans of LIFE INSURANCE are the CONTINUABLE TERM POLICY which gives to the insured the greatest possible amount of indemnity in the event of death, at the lowest possible present cash outlay; and the GUARANTEED INCOME POLICY which embraces every valuable feature of investment insurance, and which in the event of adversity overtaking the insured, may be used as COLLATERAL SECURITY FOR A LOAN, to the extent of the full legal reserve value thereof, in accordance with the terms and conditions of these policies.

Good Agents, desiring to represent the Company, are invited to address the President, at Home Office.

THE NATIONAL CREDIT INSURANCE CO.

MINNEAPOLIS, MINNESOTA.

Incorporated 1891.

Organized under Insurance Laws of Minnesota.

Deposited with the State Insurance Commissioner, - \$110,000.00

Sells Indemnity Bonds to Jobbers, Wholesalers and Manufacturers on the Annual Plan.

OFFICERS.

FREEMAN P. STRONG, President. - Vice-Pres. Farwell, Osmun, Kirk & Co., St. Paul
S. G. COOK, 1st Vice-President, - of S. G. Cook & Co., Lumber Manufacturers, and
 Vice-Pres. Metropolitan Trust Co., Minneapolis
J. F. A. WILLIAMS, 2d Vice-President, - - - Formerly General Fire Insurance
R. E. LEONARD, Secretary, - - - Formerly of R. G. Dun's Mercantile Agency
C. H. MAXCY, Treasurer, - Of S. G. Cook & Co., Lumber Manufacturers, and
 Treasurer Metropolitan Trust Co., Minneapolis
CHAS. H. WORTHEN, General Manager.

EDWARD E. BOGERT, Manager New York Department,
 305 BROADWAY, N. Y.

CANADA

LIFE ASSURANCE COMPANY.

ESTABLISHED 1847.

HEAD OFFICE, - - HAMILTON, ONT.

CAPITAL AND FUNDS

Over 14,000,000 Dollars.

Annual Income, \$2,500,000.

Surplus over \$2,000,000.

ESTABLISHED 47 years ago, built up on a sound, conservative and economical basis, the Canada Life Assurance Company occupies to-day a position of marked pre-eminence among kindred institutions.

Oldest, largest, most prosperous and popular of Canadian companies, its own intrinsic merits, past record and present financial position alike commend it to assurers seeking permanent security, honorable dealings and superior profits on their policies. The four corner stones on which the Canada Life Assurance Company has been built up are :

ECONOMY,
INTEGRITY,
LIBERALITY,
STABILITY.

A. G. RAMSAY, President.

R. HILLS, Secretary.

W. T. RAMSAY, Superintendent.

 INCORPORATED 1881.

Western Assurance Company.

HEAD OFFICE:

TORONTO, CANADA.

A. M. SMITH, Esq., President.

J. J. KENNY, Managing Director.

A. A. CRANDALL, Superintendent of Agencies.

ASSETS IN UNITED STATES,	-	-	-	-	\$1,652,577
LIABILITIES IN UNITED STATES,	-	-	-	-	1,147,834
SURPLUS,	-	-	-	-	\$504,743

Agencies in all the Principal Cities and Towns throughout Canada and the United States.

 INCORPORATED 1888.

BRITISH AMERICA ASSURANCE COMPANY

HEAD OFFICE:

TORONTO, CANADA.

GEO. A. COX, President.

J. J. KENNY, Vice-President.

W. T. BLACKWELL, Superintendent of Agencies.

ASSETS IN UNITED STATES,	-	-	-	-	\$1,108,936
LIABILITIES IN UNITED STATES,	-	-	-	-	710,562
SURPLUS,	-	-	-	-	398,374

Agencies in all the Principal Cities and Towns throughout Canada and the United States.

INCORPORATED 1850.



**Insurance Company
of New York**

See Their New

6%

Investment Credit Policy.

IT IS

SUPERIOR TO ALL.

The Saginaw Valley Fire & Marine Insurance Co.,

SAGINAW (^{EAST}_{SIDE}), MICHIGAN.

PAID-UP CAPITAL, \$100,000.00.

OFFICERS.

WALTER S. EDDY, President.

D. C. SMALLEY, Vice-President.

C. L. RING, Treasurer.

J. P. SHERIDAN, Secretary.

DIRECTORS.

W. C. MCCLURE, Mitchell & McClure, Saginaw.

W. S. EDDY, C. K. Eddy & Sons, Saginaw.

C. L. RING, Merrill & Ring, Saginaw.

C. W. WELLS, Wells, Stone & Co., Saginaw.

C. A. RUST, Rust Bros. & Co., Saginaw.

H. T. WICKES, Wickes Bros., Saginaw.

B. F. WEBSTER, Lumber, Saginaw.

F. C. STONE, Wells, Stone & Co., Saginaw.

J. F. EDDY, Eddy, Avery & Eddy, Bay City.

SELWYN EDDY, Eddy Bros. & Co., Bay City.

THOMAS CRANAGE, McGraw Transport'n Co., Bay City.

D. C. SMALLEY, Smalley Bros. & Co., Bay City.

C. A. EDDY, Eddy Bros. & Co., Bay City.

C. F. EDDY, Eddy Bros. & Co., Bay City.

S. G. M. GATES, Lumber, Bay City.

J. P. SHERIDAN, Insurance, Saginaw.

ESTABLISHED 1825 A. D.

AACHEN AND MUNICH FIRE INSURANCE COMPANY

OF AIX LA CHAPELLE, GERMANY.

Extract from Annual Statement as of December 30th, 1893.

Capital.....	\$2,250,000.00
Reinsurance Reserve.....	1,510,657.50
Premiums in force.....	1,510,657.50
Net Surplus.....	1,908,102.20
Premium Receipts for 1893.....	1,606,674.15
Losses unpaid Dec. 30th, 1893.....	100,000.00

POLICYHOLDERS' SURPLUS, \$5,668,759.70

UNITED STATES DEPARTMENT, SAN FRANCISCO, CAL

VOSS, CONRAD & CO., GENERAL MANAGERS.

THIRTEENTH ANNUAL FINANCIAL STATEMENT

OF THE

Manufacturers' and Merchants' Mutual Insurance Company,

ROCKFORD, ILLINOIS.

H. W. PRICE, PRESIDENT.

W. H. McCUTCHAN, TREASURER.

JOHN G. CHICK, VICE-PRESIDENT.

GEO. S. ROPER, SECRETARY.

— JANUARY 1, 1894. —

ASSETS.

Loans on Mortgages, first lien.....	\$4,000 00
Loans on Mortgages, Real Estate Mortgage Bonds.....	8,400 00
Loans on Collateral Security, Stocks and Bonds.....	24,112 50
City Railway Bonds owned by the Co.....	10,000 00
Cash in People's Bank, Treas. Acc't.....	84,456 68
Cash in People's Bank, Sec'y Acc't.....	79 59
Premiums in course of collection.....	11,068 25
Interest accrued, not due.....	1,642 09
	\$208,774 06
Office furniture, maps, and supplies, 33 per cent.....	\$3,890 20
Deposit notes, net value.....	516,290 57
	\$519,259 06
	\$728,034 02

LIABILITIES.

Interest outstanding, Script.....	\$400 00
Losses adjusted, not due.....	8,471 43
Losses in process of adjustment.....	4,220 00
Re-insurance Reserve.....	87,578 11
Surplus above all Liabilities.....	641,268 46
	\$613,064 02

NET CASH SURPLUS, \$25,975 91.

Losses paid since organization.....	\$205,785 41
Script dividend paid since organization.....	8,069 84
Cash.....	60,584 01

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INCORPORATED 1865.

GERMAN INSURANCE COMPANY

FREEPORT, ILLINOIS.

Cash Capital.....	\$200,000.00	Liabilities.....	\$2,046,314.00
Assets, January, 1894.....	2,918,479.00	Net Surplus.....	672,165.00

COMPARATIVE STATEMENT FOR THE LAST THIRTEEN YEARS.

	Assets.	Liabilities.	Surplus.
January 1st, 1892.....	\$933,013.60	\$457,728.68	\$475,284.92
do. 1883.....	1,185,978.92	817,658.88	368,320.04
do. 1884.....	1,478,106.39	1,084,661.94	393,444.45
do. 1885.....	1,650,798.95	1,226,800.54	423,998.41
do. 1886.....	1,843,498.08	1,408,817.35	434,680.75
do. 1887.....	2,044,703.53	1,588,853.73	455,849.80
do. 1888.....	2,187,172.68	1,710,522.42	476,650.26
do. 1889.....	2,316,574.66	1,960,753.16	355,821.50
do. 1890.....	2,452,621.09	1,996,607.84	456,013.25
do. 1891.....	2,543,996.91	1,807,282.50	536,714.41
do. 1892.....	2,671,221.00	1,867,659.00	603,562.00
do. 1893.....	2,860,659.00	1,962,769.00	697,890.00
do. 1894.....	2,918,479.00	2,046,314.00	672,165.00


C. O. COLLMAN, PRESIDENT.

H. BAIER, VICE-PRESIDENT.

WM. TREMBOR, SECRETARY,

J. M. HILTON, ASST. SECRETARY.

D. B. SCHULTE, TREASURER.

THE

 LIFE INSURANCE COMPANY OF AMERICA

(INCORPORATED),

LOUISVILLE, KY.

Capital all paid, - - - -	\$178,200
Number of policies in force Dec. 31, 1893, - - - -	48,100
Amount insurance in force Dec. 31, 1893, - - - -	\$4,265,420
Whole amount premiums collected to Dec. 31, 1893, - - - -	\$387,610
Whole amount death claims paid to Dec. 31, 1893, - - - -	\$88,582

FARRAGUT
 FIRE
 Insurance Company

OF THE CITY OF NEW YORK.

No. 346 BROADWAY.

BRANCH OFFICE:

No. 60 Cedar Street, New York.

Capital, \$200,000.

JOHN E. LEFFINGWELL, - -	President.
SAMUEL DARBE, - -	Vice-Pres't and Sec'y.
ALONZO LEWIS, - -	Asst. Sec'y.

CHARTERED 1888, PERPETUAL.

Merchants and Manufacturers

INSURANCE COMPANY

OF CINCINNATI.

FIRE AND INLAND.

Capital,	- - - - -	\$150,000.00
Assets, April 1, 1894,	- - - - -	296,564.00

WM. H. CALVERT, President. **W. S. HUKILL, Jr., Secretary.**

DIRECTORS.

ROBERT HOSEA	WM. HENRY DAVIS	RICHARD DYMOND
B. B. WHITEMAN	WM. H. CALVERT	HENRY MUHLHAUSER
ROBERT ALLISON	CHARLES C. MURDOCK	STEPHEN R. BURTON
HARLAN P. LLOYD	GRIFFIN T. MILLER	EDMUND G. WEBSTER
GEORGE BULLOCK	JNO. C. DAVIS	JAMES N. GAMBLE

1829. Charter Perpetual. 1894.

CINCINNATI INSURANCE CO.

CHARTERED, FEBRUARY, 1829.

Capital, \$150,000. Assets, \$238,698.47
 Losses Paid in 66 years, \$1,947,494.26

DIRECTORS.

MATTHEW ADDY,	- - -	Of Matthew Addy & Co.
WM. RESOER, Jr.,	- - -	Of Wm. Resoer & Co.
E. G. WEBSTER,	- - -	No. 182 West 7th St.
JOHN F. HAZEN,	- - -	Of The Hazen Co.
R. B. BOWLER,	- - -	Office, Carlisle Building.
THOS. A. WRENN,	- - -	Of A. S. Wrenn & Sons.
FRANK ELLIS,	- - -	Of Irwin, Ellis & Ballmann.
LOUIS E. MILLER,	- - -	Of Vorheis, Miller & Co.
EARL W. STIMSON,	- - -	Of The George W. McAlpin Co.
WM. WORTHINGTON,	- - -	Office, Wiggins' Block.
GEO. BULLOCK,	- - -	Office, First National Bank.
GEO. B. NICHOLS,	- - -	Office, City Hall.
ROBT. T. BONSALE,	- - -	President.
LEWIS L. TOWNLEY,	- - -	Secretary.

ROBERT T. BONSALE, President.
LEWIS L. TOWNLEY, Secretary.
T. BISHOP CLEMENT, Surveyor.

OFFICE: 69 WEST THIRD STREET.

THE

THE UNION CENTRAL

LIFE INSURANCE CO.

OF CINCINNATI.

ASSETS, DECEMBER 31st, 1893, \$11,088,378.29.

Has doubled its assets and
 more than doubled its sur-
 plus in four years. . . .

LIFE RATH ENDOWMENTS A SPECIALTY.

The highest per cent of
 interest earnings and the
 lowest per cent of death
 losses of any company in
 the land.

One of the few companies that made gains at every
 point in 1893.

E. P. MARSHALL, **J. M. PATTISON,**
 SECRETARY. PRESIDENT.

ORGANIZED IN 1886.

THE MACON FIRE INSURANCE COMPANY, MACON, GA.

Cash Capital, \$100,000 Total Assets, \$164,796

S. S. DUNLAP, President.

R. E. PARK, Vice-President.

EDGAR S. WILSON, Secretary and Treasurer.

C. E. ANGELL & CO., NEW ORLEANS, General Agents for Louisiana and Texas.

JOHN J. McKAY, Special Agent.

THE Cincinnati Underwriters

COMPOSED OF THE

Eureka Fire and Marine and Security Fire

INSURANCE COMPANIES

OF CINCINNATI.

Statement, January 1, 1894.

Cash Capital,	- - -	\$250,000.00
Reserved for reinsurance,	- -	127,112.00
Unpaid Losses and other Liabilities,	14,929.00	
Net Surplus,	- - - -	139,638.00
		<u>\$531,679.00</u>

F. A. ROTHIER, Prest.

ADAM BENUS, Secy.

ORGANIZED 1860.

Farmers' Insurance Co.,

CEDAR RAPIDS, IA.



INSURES

AGAINST

Stores,
Stocks of Goods,
Dwellings,
Farm Property,

Fire,
Lightning,
Tornadoes,
Wind Storms.

Losses Paid in Iowa, \$1,375,000.00.

The Mutual Life and Endowment Association

OF INDIANA.

INCORPORATED FEB., 1882.

CHARTER PERPETUAL.

INDIANAPOLIS, IND.

FINANCIAL STATEMENT.

DECEMBER 31, 1893.

ASSETS.

Loans on Mortgage Security.....	\$165,733.08
Office Furniture, Safes, etc.....	1,897.00
Notes and Premiums in Course of Collection.....	12,374.00
Cash in Office and Banks.....	53,019.86
Total assets.....	\$233,023.94

INSURANCE IN FORCE.

New Business Written During the Year.....1722	\$708,009.00
Insurance in Force December 31, 1893.....6629	2,408,840.00

INCOME DURING THE YEAR 1893.

Premium Receipts.....	\$168,459.74
Interest Receipts.....	8,096.33
Total Income.....	\$176,556.07

EXPENDITURES.

Death Claims.....	\$10,138.45
Paid on Surrendered Policies, Loans, Taxes, etc.....	71,888.05
Cash Paid for Commissions on New and Old Business.....	21,125.32
Cash Paid for Salaries and Traveling Expenses of Gen. Agents.....	6,369.47
Cash Paid for Medical Examiners' Fees.....	1,174.00
Cash Paid for Salaries, Compensation of Officers and Clerks.....	9,120.04
Rent, Postage, Furniture, etc.....	2,165.89
Printing and Advertising.....	1,554.99
Cash in Banks.....	53,019.86
	\$176,556.07

LIABILITIES.

Amount Necessary to Reinsure Outstanding Risks, Actuaries 4%.....	\$112,463.13
Surplus to Policyholders.....	120,560.81
	\$233,023.94

February 1st, 1894.

HENRY MALPAS, SEC'Y.

This company issues various kinds of policies, which are original in character, take well with the public, and are easily sold by agents. The company loans its surplus moneys to none but its own policyholders and on first mortgage security, thereby placing its assets strictly against the liabilities of the company.

FIRST-CLASS, RESPONSIBLE AGENTS WANTED.

CRESCENT INSURANCE COMPANY

OF NEW ORLEANS.

Organized on Mutual Plan in 1849.

Reorganized as a Stock Company in 1880.

PAID-UP CAPITAL, \$240,000.00.

**This Company has Paid since its Organization Over
\$11,000,000 for Losses.**

W. R. LYMAN, President.

JOHN E. WHITING, Secretary.

GEO. W. SENTELL, Vice-President.

DIRECTORS.

GEO. W. SENTELL,
JOSEPH KOHN,
CHAS. H. DOLSEN,

T. H. WATSON,
H. D. McCOWN,
JAMES T. RODD,
F. R. JOHNSON,

S. C. COULON,
U. MARINONI,
JOHN A. HUBBARD,
J. M. LOCKHART.

R. F. W. BACHMAN,
W. R. LYMAN,
B. W. BOWLING.

E. S. WALTON, Special Agent for Mississippi.

L. B. LEIGH, Special Agent for Arkansas.

CHARLES LE SASSIER, Jr., Special Agent for Louisiana.

The Southern Industrial LIFE INSURANCE CO.

HOME OFFICE:

66 Baronne St., New Orleans.

Incorporated under the Laws of Louisiana.

CAPITAL, - \$100,000.

CHAS. E. RICE, President.

THOS. SULLY, 1st Vice-President.

J. P. BALDWIN, 2d Vice-President.

FERGUS KERNAN, Attorney.

HUNTER C. LEAKE, Treasurer.

JOHN W. TURNER, Secretary.

BOARD OF DIRECTORS.

John A. Morris,
Cartwright Eustis,
T. R. Roach,
E. Wailes,
J. P. Baldwin,
Fergus Kernan,
Hunter C. Leake,

Chas. E. Rice,
Chas. W. Drown,
J. W. Turner,
Jeff. C. Wenck,
Thomas Sully,
E. G. Schlieder,
T. J. Kernan,

Isadore Hermsheim.

RESPONSIBLE AGENTS WANTED IN LOUISIANA.

NEW ORLEANS INS. ASSOCIATION,

NEW ORLEANS, LA.

GEO. LANAUX, President.

CHAS. D. DELERY, Secretary.

PAID UP CAPITAL, - \$300,000 00

ASSETS, JAN. 1, '94, 363,658.00

Teutonia Ins. Co.

OF NEW ORLEANS.

Capital Stock, - - \$250,000.00

Assets, January 1st, 1894, - 495,000.00

ALBERT P. NOLL, President.

H. R. GOGREVE, Vice-President.

GEO. MEYER, Secretary.

ESTABLISHED 1854.

The Merchants Insurance Co.

OF NEW ORLEANS.

Office: No. 104 Canal Street.

CAPITAL, PAID-UP, - - - \$300,000.

THIS COMPANY DOES A FIRE, MARINE AND RIVER BUSINESS.

JULES MONTREUIL Secretary.

PAUL CAPDEVIELLE, President.

DIRECTORS:

D. A. CHAFFRAIX,

M. W. SMITH,

PAUL CAPDEVIELLE,

ARISTIDE HOPKINS,

JOHN M. BALDWIN,

J. S. ZACHARIE,

JOS. A. SHAKSPEARE,

W. H. BOFINGER,

A. XIQUES.

HENRY C. BOUCHER,

JAYME MAGI,

SOUTHERN

INSURANCE COMPANY

OF NEW ORLEANS, LA.

Incorporated November 20, 1882.

CASH CAPITAL, - - - \$300,000.00
 ASSETS, JANUARY 1, 1893, - 510,000.00

ERNEST MILTENBERGER, PRESIDENT.

H. GALLY, VICE-PRESIDENT.

SCOTT MCGEHEE, SECRETARY.

DIRECTORS:

H. Gally

R. Milliken

T. J. Woodward

William Mehle

F. G. Ernst

D. A. Z. Vaught

Leon Joubert

Geo. H. Dunbar

I. Hemsheim

R. Beltram

S. V. Fornaris

J. R. Jaeger

J. J. Gragard

Frank Roder

Frank Barker

Sam Delgado

Scott McGehee

Jos. Schwartz

C. W. Miltenberger

J. F. Simpson

Chs. Weiss

Robert Carey

Henry Daspit

L. C. David

Ernest Miltenberger

ORGANIZED IN 1869.

MECHANICS and TRADERS INSURANCE COMPANY OF NEW ORLEANS.

CAPITAL,	-	-	-	-	-	-	\$375,000
ASSETS,	-	-	-	-	-	-	809,969
NET SURPLUS, over all Liabilities,	-	-	-	-	-	-	73,124

LLOYD R. COLEMAN,
PRESIDENT.

GEO. H. FROST,
SECRETARY.

HOWE, POST & CO.,

MANAGERS NORTHERN DEPARTMENT,

135 and 137 BROADWAY, . . . NEW YORK.

THE
Kansas Mutual Life Association
OF TOPEKA, KANSAS,

Is a Regular Old Line Life Insurance Company, writing all popular forms of Life and Endowment Policies, with Annual Dividends or upon the Accumulation Plan. Each Policy is exceedingly liberal as to Paid-Up Insurance and Cash Surrender Values.

Attractive Renewable Term Policies are also written.

\$150,000.00

*Deposited with the State Treasurer
of Kansas.*

Men of character and good ability can secure liberal contracts as State or District Agents.

Address

J. P. DAVIS, President.

The Rutland
Insurance Company

RUTLAND,
VERMONT.

CONSERVATIVE AND YET PROGRESSIVE

WM. H. HUBBARD, President.

E. M. BUCK, Secretary.

WM. O. PARMENTER, Asst Sec'y.

HENRY O. EDSON, Treasurer.

CHESTER PARMENTER, Agency Mg'r.

N. Y. Standard Form of Policy.

PARTICIPATING POLICIES
ISSUED IF DESIRED.

WESTERN DEPARTMENT:

523 THE TEMPLE, CHICAGO.

Wm. H. HUBBARD & Co., Gen'l Agents.

THE UNITED UNDERWRITERS.

JAS. A. KEHLBECK, ATTORNEY.

58 Cedar Street, New York.

ISSUES POLICIES ON STANDARD MERCANTILE AND
MANUFACTURING RISKS.

CORRESPONDENCE SOLICITED.

THE INSURANCE TRUST,

58 CEDAR STREET, NEW YORK.

SEVENTY-FIVE PER CENT OF ALL PREMIUMS HELD BY TRUSTEES
AS A PERMANENT FUND FOR THE PAYMENT
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Loss Ratio 1893, 38%.

Expense 1893, 19%.

Losses Paid 1893, \$23,634.00.

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Assets.....	121,382.50
Total Liabilities except Capital, including Reinsurance Reserve,	9,344.40
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Loss Ratio, 1893.....	5%
Expense Ratio, 1893.....	21%
Losses paid in 1893.....	\$901.60

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Net Surplus, Jan. 1, 1894, - 47,246.00

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